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THE RESOURCES AGENCY OF CALIFORNIA

Department of Water Resources

BULLETIN No. 23-61

SURFACE WATER FLOW FOR 1961

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AUGUST 1963

HUGO FISHER
Administrator
The Resources Agency of California

EDMUND G. BROWN
Governor
State of California

WILLIAM E. WARNE
Director
Department of Water Resources

State of California

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FOREWORD

This report presents hydrologic data for the hydrographic regions of Northern and Central California. These data were collected by the four area branches of the department: Northern, Bay Area, Delta, and San Joaquin Valley. Each branch uses standard hydrographic procedures in the collection of these data.

The department cooperates in the collection of data from a network of approximately 400 stream gaging stations, whose records are published by the U. S. Geological Survey in the annual water supply paper. The data collected by the department and presented in this report augment data from stream gaging stations of other agencies.

The reporting period is the Water Year (October 1 to September 30) for streamflow data, and the Diversion Year (November 1 to October 30) for the diversion data contained herein. Stages are tabulated daily for the period November 1 to June 30.

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STREAM FLOW, STAGE, AND STATION DESCRIPTION

CENTRAL VALLEY REGION	Page: Stream Flow	Stage Daily Mean and Crest	Station Deacription
American River at Fair Oaks		231	37
American River at Sacramento		231	37
Antelope Creek near Red Bluff		204	25
Arden Area Drainage to American River (Pumping Plant #1)	109		37
Arden Area Drainage to American River (Pumping Plant #2)	109		37
Ash Creek at Adin	67		25
Auburn Ravine at Lincoln	105		37
Battle Creek near Cottonwood		202	25
Bear Creek below Bear Reservoir	124		53
near Cathay	124		53
near Millville	73		25
near Rumsey	113		37
Bear River near Colfax	104		37
near Wheatland		226	38
Big Chico Creek at Chico	79		25
near Chico		208	25
Big Creek Diversion near Fish Camp	119		53
Big Sage Reservoir near Alturas		200	25
Burkhardt Drain near Grayson	131		53
Burney Creek near Burney	70		25
Burns Creek below Burns Reaervoir	125		53
at Hornitos	125		53
Butte Creek near Adin	68		26
near Chico		212	26
near Durham	82		26
Butte Slough at Mawson Bridge	83	218	26
at Outfall Gates	83	213	26
Cache Creek above Rumsey	114		38
at Yolo		233	38
Calaveras River at Bellota	138		38
at Jenny Lind		244	38
near Stockton	138		38
Cherokee Canal near Richvale	82	213	26
Clear Creek near Ig-		201	26
Clover Creek at Upper Lake	111		38
Bypass near Upper Lake	111		39
Colusa Basin Drain near College City		217	27
at Highway 20	87	216	27
at Knights Landing	88	217	27
Colusa Weir Spill to Butte Basin	81		27
Contra Costa Canal near Oakley	141		39
Coon Creek at Highway 99E	105		39
Copsey Creek near Lower Lake	113		39
Cosumnes River at McConnell		246	39
at Michigan Bar		245	39
Cottonwood Creek near Cottonwood		202	27
Cross Creek below Lakeland Canal 2	145		54
Deer Creek near Nevada City	103		39
near Sloughhouse	140		39
near Vina		206	27
at Terra Bella Irrigation District	147		54
Delta Cross Channel at Walnut Grove		253	40
Delta-Mendota Canal near Tracy	141		40
Dry Creek near Ione	139		40
Dry Creek near Modesto	130	239	54
near Wheatland		227	40
Dry Fork South Fork Cottonwood Creek near Cottonwood	75		27
Duck Creek near Stockton	136		40
Diversion near Farmington	135		40
East Fork Chowchilla River near Ahwahnee	121		54
Elk Bayou near Tulare	145		54
Fall River near Dana	69		28
Feather River near Gridley	101	224	40
at Nicolaus		227	41
near Oroville		223	41
below Shanghai Bend	103	226	41
at Yuba City	102	224	41
Folsom Lake	108		41
Fremont Weir Spill to Yolo Bypass	96		41
French Camp Slough near French Camp	134		42
Friant-Kern Canal Delivery to Porter Slough	143		54
to Tule River	144		55
Georgiana Slough at Mokelumne River		281	42
Grant Line Canal at Tracy Road Bridge		269	42
Grindstone Creek near Elk Creek	77		28
Hat Creek near Cassel	70		28
Horse Creek at Little Valley	69		28
Indian Creek near Boulder Creek Guard Station	99		42
Indian Creek near Taylorsville	100		42
Kern River near Bakersfield	146		55
Larsen Creek near Willow Ranch	64		28
Lights Creek near Taylorsville	100		42
Linda Creek near Roseville	108		43
Lindo Channel near Chico	79		28

STREAM FLOW, STAGE, AND STATION DESCRIPTION (continued)

CENTRAL VALLEY REGION (continued)	Page: Stream Flow	Page: Stage Daily Mean and Crest	Page: Station Description
Little Chico Creek near Chico	78		28
Diversion near Chico	78		28
Little Cow Creek near Ingot	72		29
Little Last Chance Creek near Chilcoot	97		43
Littlejohn Creek at Farmington	136		43
Mariposa Creek near Cathay	122		55
below Mariposa Reservoir	123		55
Maxwell Creek at Coulterville	126		55
McLeod Lake at Stockton		273	43
Merced River at Cressey	127	236	55
below Snelling	127	235	56
Miami Creek near Oakhurst	119		56
Middle Creek near Upper Lake	110		43
Middle Fork Chowchilla River near Nipinnawasee	120		56
Middle Fork Feather River near Portola	98		43
Middle River at Bacon Island		276	43
at Borden Highway		271	43
at Mowry Bridge		267	43
Mill Creek near Los Molinos		204	29
near Mouth		205	29
Miller Creek near Sattley	98		44
Millerton Lake	117		56
Miner Slough at Five Points		260	44
Mokelumne River at Woodbridge		245	44
near Thornton		254	44
Mormon Slough at Bellota	137		44
Moulton Weir Spill to Butte Basin	80		29
Natomas Cross Canal at Head		228	44
North Fork Davis Creek near Davis Creek	64		29
North Fork Cottonwood Creek near Igo	74		29
North Fork Merced River near Coulterville	126		56
North Fork Mill Creek near Los Molinos	76		29
North Fork Tule River at Springville	142		56
North Honcut Creek near Bangor	102		44
Old River at Clifton Court Ferry		270	44
at Holland Tract		278	45
at Mansion House		272	45
near Rock Slough		277	45
near Tracy Road Bridge		268	45
Orestimba Creek near Crows Landing	128		57
Owens Creek below Owens Reservoir	123		57
Panoche Drain near Dos Palos	118		57
Pine Creek near Alturas	65		29
Pit River below Alturas	66		30
Pleasants Creek near Winters	115		45
Pope Creek near Pope Valley	114		45
Porter Slough at Porterville	142		57
near Porterville	143		57
Putah Creek above Davis	116		45
below Winters	115		45
near Winters		234	45
Reclamation District 70 Drainage to Sacramento River	84		30
108 Drainage to Sacramento River	86		30
787 Drainage to Colusa Basin Drain	88		30
787 Drainage to Sacramento River	86		30
1000 Drainage to Sacramento River (Pritchard Lake)	106		46
1000 Drainage to Sacramento River (Second Bannon Slough)	107		46
1001 Drainage to Natomas Cross Canal	106		46
1500 Drainage to Sacramento Slough	95		30
1660 Drainage to Sutter Bypass	89-92		30
1660 Drainage to Tisdale Bypass	92-95		30
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Red Clover Creek near Genesee	99		46
Rock Slough at Contra Costa Canal Intake		279	46
Rush Creek near Adin	67		31
Sacramento River at Butte City		209	31
at Butte Slough Outfall Gates		212	31
at Clarksburg		250	46
at Colusa		211	31
at Colusa Weir		211	31
near Freeport		249	46
at Fremont Weir East End		223	47
at Fremont Weir West End		222	47
at Hamilton City	77	207	31
at Isleton		257	47
at Keswick		201	31
at Knights Landing		218	31
at Meridian	84	214	32
at Moulton Weir		210	32
opposite Moulton Weir	81	210	32

STREAM FLOW, STAGE, AND STATION DESCRIPTION (continued)

	Page		
	Stream Flow	Stage Daily Mean and Crest	Station Description
CENTRAL VALLEY REGION (continued)			
Sacramento River near Mount Shasta	63		32
at Ord Ferry	80	209	32
at Pritchard Lake		229	47
at Reclamation District 70 Pumping Plant		214	32
above Reclamation District 108 Pumping Plant	85		32
at Red Bluff		203	32
near Red Bluff		203	33
at Rio Vista		262	47
near Rough and Ready Bend		216	33
at Sacramento	110	248	47
at Sacramento Weir		247	47
opposite Sacramento Weir		229	47
at Second Bannon Slough		230	48
at Snodgrass Slough		251	48
at Tisdale Weir		215	33
at Verona		228	48
at Vina Bridge	76	206	33
at Walnut Grove		256	48
below Wilkins Slough		215	33
Sacramento Slough at Sacramento River	96		33
Sacramento Weir Spill to Yolo Bypass	107		48
Salt Creek near Bella Vista	72		33
San Joaquin River at Antioch		284	48
at Brandt Bridge		265	48
at Crows Landing Bridge		237	57
near Dos Palos	120		57
at Fremont Ford Bridge		235	58
at Grayson	128	238	58
at Hetch Hetchy Aqueduct Crosiing	131		58
at Maze Road Bridge		241	58
near Mendota	118		58
at Mossdale Bridge		264	49
near Newman		236	58
at Patterson Bridge		237	58
at Rindge Pump		275	49
at San Andreas Landing		282	49
at Venice Island		280	49
near Vernalis	133	244	59
at West Stanislaus I. D. Intake		241	59
at Whitehouse	117		59
Scott Creek near Lakeport	112		49
at Upper Lake		232	49
Shasta Lake	71		34
Smithneck Creek near Loyalton	97		49
Snodgrass Slough at Twin Cities Road Bridge		252	50
South Fork Battle Creek near Mineral	73		34
South Fork Cottonwood Creek near Cottonwood	74		34
South Fork Kings River below Empire Weir 2	146		59
South Fork Mokelumne River at New Hope Bridge		255	50
South Fork Pit River near Jess Valley	65		34
South Fork Putah Creek near Davis	116		50
South San Joaquin Irrigation District Drain 11 near Manteca	134		50
Main Drain at French Camp	135		59
Spanish Creek near Quincy	101		50
Spring Creek near Keswick	71	276	34
Stanialaus River at Koetitz Ranch		243	59
near Mouth	133		60
at Orange Blossom Bridge	132	242	60
at Ripon		243	60
at Riverbank	132	242	60
Stockton Diverting Canal at Stockton	137		50
Stockton Ship Channel at Burns Cutoff		274	50
Stone Corral Creek near Sites	87		34
Stony Creek near Hamilton City		207	34
at St. John		208	35
Striped Rock Creek near Raymond	122		60
Sutter Bypass at Long Bridge		219	35
at Reclamation District 1500 Pumping Plant		222	35
at State Pumping Plant 1		221	35
at State Pumping Plant 2		221	35
at State Pumping Plant 3		220	35
Sutter Creek near Sutter Creek	140		50
Thomes Creek at Paskenta		205	35
Threemile Slough at Sacramento River		263	51
Threemile Slough at San Joaquin River		283	51
Tisdale Bypass at Reclamation District 1660 Pumping Plant		220	35
Tisdale Weir Spill to Sutter Bypass	85		36
Tom paine Slough above Mouth		266	51
Tulare Lake		246	60
Tule River below Porterville	144		61
Tuolumne River at Hickman Bridge	129	239	61
at Modesto		240	61

STREAM FLOW, STAGE, AND STATION DESCRIPTION (continued)

	Page		
	Stream Flow	Stage Daily Mean and Crest	Station Description
CENTRAL VALLEY REGION (continued)			
Tuolumne River at Roberts Ferry Bridge	129	238	61
at Tuolumne City	130	240	61
Turner Creek near Canby	66		36
Wadsworth Canal near Sutter	89	219	
West Fork Chowchilla River near Mariposa	121		41
West Valley Reservoir near Likely		200	
Willow Creek near Adin	68		36
Willow Creek near Willow Ranch	63		36
Wolf Creek near Wolf	104		51
Yolo Bypass at Liberty Island		259	51
at Lindsey Slough		261	51
near Lisbon		258	51
above Sacramento Bypass		234	51
near Woodland		233	52
Yuba River at Englebright Dam		225	52
near Marysville		225	52
LAHONTAN REGION			
Bidwell Creek near Fort Bidwell	290		287
Blackwood Creek near Tahoe City	293		287
Cedar Creek at Cedarville	290		287
Eagle Creek at Eagleville	291		287
Eagle Lake near Susanville		295	287
Gold Run Creek near Susanville	292		287
Long Valley Creek near Doyle	293		287
Pine Creek near Susanville	291		287
Trout Creek near Tahoe Valley	294		288
Upper Truckee River near Meyers	294		288
Willow Creek near Litchfield	292		288
NORTH COASTAL REGION			
Big Creek near Hayfork	18		11
Browns Creek near Douglas City	17		11
Etna Creek near Etna	15		11
Little Shasta River near Montague	15		11
Moffet Creek near Fort Jones	16		11
North Fork Trinity River at Helena	17		11
Shasta River near Edgewood	14		11
Shasta River near Weed	14		12
Weaver Creek near Douglas City	16		12
SAN FRANCISCO BAY REGION			
Arroyo de Los Coches near Milpitas	300		298
Sacramento River at Collinsville		301	298
Suisun Bay at Benicia Arsenal		302	298
Walnut Creek at Pleasant Hill	300		298

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May 10, 1963

Honorable Edmund G. Brown, Governor,
and Members of the Legislature of
the State of California

Gentlemen:

I have the honor to transmit herewith Bulletin No. 23-61, "Surface Water Flow for 1961." This report is a continuation of the annual series which commenced in 1924 and contains basic data of water flow, diversions, stream stages, and salinity. Although the majority of the material pertains to the Sacramento and San Joaquin Rivers and their tributaries, the data is presented on a regional basis in accordance with the subdivision of the State into hydrographic areas.

The data presented in this report covers another year of substantially below normal runoff. Flow data show many streams dry during the summer months when normally they supply water for irrigation and other uses.

Sincerely yours,

William E. Warne

Director

ACKNOWLEDGMENTS

Cooperation and assistance have been received by the department in the collection of these data from various public and private agencies. This department is grateful to those agencies and appreciates this opportunity to acknowledge their help.

The United States Department of the Interior, Geological Survey and Bureau of Reclamation, furnished stream stage and flow data, and data on the reservoirs of the Central Valley Project, respectively. The United States Department of the Army, Corps of Engineers, has made available streamflow data for certain San Joaquin Valley streams.

The Pacific Gas and Electric Company, the Sacramento Municipal Utility District, and the Modesto and Turlock Irrigation Districts have furnished a large number of electric power consumption records for computation of the quantity of water pumped from streams.

The City of San Francisco Public Utilities Commission has assisted in the collection of other hydrologic data presented in this report.

STATE OF CALIFORNIA
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---

* On August 4, 1961, the four area branches were organized. Prior to this time, data were collected by the Surface Water Unit of the Division of Resources Planning, Department of Water Resources.

INTRODUCTION

This report presents surface water data for the Water Year 1961 which is from October 1, 1960, to September 30, 1961. The data presented here consists of stream gaging station descriptions, streamflow quantities, stream stage tables, diversion quantities, and salinity observations.

Stream gaging station descriptions presented here show the historic maximum discharge and the maximum discharge for the report year. Written detailed locations of the gaging stations and other important data on the length of record and datum of gage are also presented.

Quantities of daily mean discharge for most stations shown here are computed by an electronic computer which was first used extensively for this purpose in this report. The gage height data are fed into the computer simultaneously with rating data, and daily mean discharges, total monthly acre-feet, and instantaneous maximum and minimum discharges are computed. The gage height data are extracted from the standard recorder chart by a semi-automatic chart reading machine and put into machine language. Those gaging stations presented here which are affected by a backwater condition are not adaptable to computation by machine method, and are computed manually by standard methods.

Daily mean stage tables of regular and tide affected streams are shown here. These daily mean gage heights are computed by the electronic computer, as mentioned above. The gage height data are to the nearest one-hundredth of a foot, and the major crests for the year are shown.

Quantities of water diverted for use are shown as monthly total acre-feet and total acre-feet diverted for a certain reach of stream.

Accretions to Streamflow

There are large quantities of accretions to the flows of the streams and channels in their courses across the valley floors. These accretions are of major importance as available irrigation supplies. They are made up of measured flows from surface drains, from scores of small surface drains, and other flows not susceptible to direct measurement, such as from minor ephemeral streams, from seepage and return of percolated irrigation water, and from escaping underground water normally present as the result of percolated rainfall on the valley floor. The amount of total accretion along any stream reach is the summation of amounts of measured drains plus unmeasured accretions.

Because accretions are not a measured quantity, but rather the result of subtracting measured upstream flow from the flow at a station downstream, they contain all the errors of measured flow involved. For this reason, figures of accretions have not been included in this report.

"Report of Sacramento-San Joaquin Water Supervision" was published annually from 1924 through 1955. Data pertinent to that area is now included as a part of this publication.

Data formerly appearing in "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys," published from 1913 through 1956, are also included as a part of this bulletin.

The objective of this report is to bring together, in a permanent and usable form, all surface flow data gathered by the Department of Water Resources during the 1961 water year. Other relevant data are added for the convenience of the user.

Definitions of Terms

A list of definitions of terms as used herein follows:

Second-foot or cubic foot per second is the unit rate of discharge of water. It is a cubic foot of water passing a given point in one second.

Acre-foot is the quantity of water required to cover one acre to a depth of one foot. It is equivalent to 43,560 cubic feet or 325,850 gallons.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, which is enclosed by a drainage divide.

Unimpaired runoff is the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams and reservoirs; (2) no artificial diversions or accretions; and (3) no changes in ground water storage resulting from development. Unimpaired flow is computed from measured runoff by allowing for man-made changes in natural conditions.

Water Year is the 12-month period from October 1 of any year through September 30 of the subsequent year, and is designated by the calendar year in which it ends.

Consumptive use is the water transpired, evaporated, and used in promoting vegetative growth plus the water evaporated from adjacent soil and water surfaces.

Scope

The work of the Department of Water Resources is concerned with gathering basic data relating to water supply and utilization. In addition to the collection of data on operational water supply, the department is actively engaged in the collection of hydrologic water supply data to augment the base network of the United States Geological Survey. The work consists of field measurements and observations and office computations to determine the daily or monthly quantities of streamflow and diversions. The work also includes maintaining the Delta salinity observation program.

The field activities include the construction and maintenance of streamflow gaging stations, and the measurements of (1) flow in streams and drainage channels, (2) the amounts of water returned to natural channels through drainage plants or gravity drains, and (3) the amounts of water diverted for use by each water user. The field work also includes the recording of the diversions and acreages irrigated by the large eastside irrigation districts (Modesto, Merced, Oakdale, South San Joaquin, and Turlock), and the diversions and deliveries by the canals of the Central Valley Project.

The office work is comprised of the preparation of hydrographic data for computation by machine methods. This work consists of developing a rating curve for each stream flow station from a series of instantaneous discharge measurements, and a related formula of the curve. The formula is written in electronic computer language as rating data for computation as previously mentioned.

The office work also includes the manual computation and compilation of the discharge of certain rivers and streams which are not readily computable by an electronic computer. The reason certain discharges are not computable by the electronic computer is because the direct stage-discharge relationship has been destroyed by ice forming on the control, by backwater from a tributary downstream, or by a control structure downstream.

As a regular part of the office work, quantities of water diverted for use are also computed. The quantities computed are total monthly acre-feet. The acre-foot quantities are computed from pumping plant efficiency curves which are developed from a series of instantaneous discharge measurements. The electrical power input, the pumping head, and the discharge are recorded simultaneously to compute the efficiency of a pumping plant. This recording of pumping data is done as part of the field work previously mentioned. The office work involved requires the development of the efficiency curve and the computation of the monthly acre-feet by using the monthly electrical power input records.

TABLES

The tables of daily mean discharge and stage herein are presented by the hydrographic region in which they fall. The hydrographic regions are the same used by the State Water Pollution Control Board. These regions shown on Plate I are the North Coastal, San Francisco Bay, Central Valley, and the Lahontan Regions.

Daily Mean Discharge

The streamflow tables are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named from the stream and the nearest post office (Feather River at Yuba City) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

Each stream gaging station has a stage-discharge relationship or rating developed. The rating gives the flow in second-feet for each gage height at the station. When flows at a single station occur in excess of 140 percent of the highest measurement on the rating, the computed daily mean discharges from the electronic computer are shown as estimated. Normally, the rating is fairly permanent where there is a fixed channel and a fixed flow regimen at the station. The rating varies, however, where the bed at the channel is of loose shifting sand, or where aquatic growth builds up in the channel changing the flow regimen.

Where the rating is not permanent and varies periodically, more frequent measurements of discharge are necessary to accurately determine the daily mean discharge.

An automatic water stage recorder is in operation at most of the gaging stations used in this work. The continuous records of water surface elevations at the stations serve three major purposes in the preparation of the data presented in this report. First, the actual surface elevations at two adjacent stations on a stream afford the means of obtaining the water surface elevations at the pumping plants along the stream between those stations. These elevations give the pumping heads, which heads, in turn, become factors in determining the rates of diversion or drainage by pumping plants. Second, the water surface elevation (gage height) is a factor in determining the flow of the stream, in second-feet, passing the station. Third, the gage heights are presented in the stage tables for use in determining flood crests.

All streamflow data reported herein are derived through the use of mechanical, arithmetical, and empirical operations and methods. Since the results are affected by inherent inaccuracies in the procedures and equipment used, it becomes necessary to establish limits of accuracy for which the data are reported. The following is a listing of significant figures used in reporting streamflow data:

1. Daily flows - second-feet

0.0 - 9.9	Tenths
10 - 99	2 significant figures
100 - up	3 significant figures

2. Means - second-feet

0.0 - 99.9	Tenths
100 - 999	3 significant figures
1000 - above	4 significant figures

The water year totals are reported to a maximum of four significant figures.

Daily Mean Gage Heights

Tables of daily mean gage height and crest stages were published prior to 1957 in a report of this department titled "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys."

At the bottom of the stage tables are shown the major river crests occurring during the Water Year 1960-61. At stations where an individual daily staff gage reading is taken, which is noted at the bottom of each table, the major crests are now shown.

Two types of daily data are presented for the height or stage of water surface: (1) for streams subject to tidal influences, daily maximum and minimum gage heights; and (2) for those streams beyond tidal influence, daily mean gage height, or an average of one or more daily staff gage or wire-weight gage readings. Of the 133 stations for which daily stages are presented in this report, 28 have computed daily mean flow. These data are included in the streamflow tables.

Gage heights for stage tables are read in the field or computed from recorder charts, and may be reported to either the nearest tenth of a foot or one-hundredth of a foot.

Daily gage heights, in feet, are tabulated for each day of the period November 1 to June 30, 1961. The elevation of the water surface at the gaging station is obtained by adding the gage height readings to the elevation of the gage datum presented in Tables 1, 16, 358, and 371.

Lakes and Reservoirs

Two types of data are presented for lakes and reservoirs: (1) daily content in acre-feet for Shasta, Folsom, Berryessa, and Millerton Lakes; and (2) daily stage in feet for all others. Plate 3 consists of hydrographs of Shasta Lake, Folsom Lake, and Millerton Lake.

Diversions

These tables show the water diverted during the period November 1, 1960 - October 31, 1961. While the major use of water is for agriculture, small amounts that are diverted for municipal and industrial uses are also reported. The amounts of water diverted by pumping were determined by rating the capacity of each diversion pumping plant and collecting data on hours of operation. The amounts of water diverted by gravity (indicated by "Gravity" in column headed "Number and Size of Pump") were determined either by calibrating suitable measuring devices or by rating canals in a manner similar to that used to rate streamflow stations.

Because of the intermittent operation of most diversion facilities, the monthly diversion values are reported in acre-feet to three significant figures. The totals for individual water users and stream reaches are reported to four significant figures.

Summary of Water Supply and Utilization, Sacramento-San Joaquin Delta

The complexity of waterways, tidal action, seepage, and methods of agricultural water use results in hydrologic problems which preclude normal methods of measuring water supply and water utilization in the Sacramento-San Joaquin Delta.

The correlation of water supply and use for the Delta Service Area, divided into uplands and lowlands, is shown in Table 21. The water supply available to the area is determined from 13 gaging stations, listed under "Water Supply" in the table, and from 42 precipitation stations in the area. "Water Utilization" in the same table includes agricultural use, evaporation, exports through the Delta-Mendota and Contra Costa Canals, and diversion for the City of Vallejo. Agricultural use in the uplands is determined by direct measurement of diversions; however, in the lowlands, because it cannot be measured directly, agricultural use is computed by unit values of consumptive use of the various crops, multiplied by the acreages. Unit values of consumptive use were derived from experimental work by the University of California and California Extension Service as reported in Bulletin No. 27 entitled "Variations and Control of Salinity in Sacramento-San Joaquin Delta and Upper San Francisco Bays." Crop acreages are determined by periodic land use surveys. Values used in this report were determined from a survey made in 1955.

Supplementary Tables

The supplementary tables include a description of gaging stations, precipitation data, runoff comparisons, and salinity at selected stations in the Sacramento-San Joaquin Delta.

Gaging Station Description. Tables 1, 22, 351, and 364 provide station descriptions and supplemental current and historical data for each gaging station reported. Each gaging station is referenced to a well established datum plane elevation wherever such datum is known. Some gages are referenced to arbitrarily assumed local datum planes, denoted as "local" in the reference datum column. All gage heights are in feet.

Precipitation. Table 18 presents the monthly precipitation data for the water year for several stations in the Sacramento and San Joaquin Valleys, from Shasta Dam to Fresno. The stations give a broad and general indication of the rainfall on the floor of the Central Valley.

Runoff Comparisons. The relative magnitude of runoff occurring on any one stream during a given year may be shown as the ratio of the runoff of that year with the average runoff of the stream expressed as a percentage. For this report, the average unimpaired runoff is computed for the 50-year period October 1907 through September 1957. Table 19 presents, for the major streams of the Central Valley area, the 1959-60 monthly unimpaired runoff expressed as a percent of the 50-year average monthly unimpaired runoff. Table 20 shows the unimpaired average annual runoff for the same streams and the percentage of the 50-year average unimpaired runoff for each water year from 1919-20 through 1959-60.

Salinity. Table 218 lists the salinity sampling stations within the Sacramento-San Joaquin Delta. The stations are listed beginning with the Golden Gate as zero miles and proceeding upstream through the bay system to the delta area. The salinity samples are taken,

when possible, at four-day intervals, one and one-half hours after high-high tide. The observed concentrations of salinity are given in Table 220. The locations of these stations are shown on Plate 2, "Lines of Annual Maximum Salinity Encroachment." The line of salinity encroachment describes the maximum seasonal encroachment of 1000 parts of chlorides per million parts of water. The lines on the plate show conditions during the current water year and other water years of historical interest.

Miscellaneous Measurements

Table 381 contains tabulations of discharge measurements of streamflow on various streams at locations other than those where continuous recorders are maintained. When the flows as shown here are correlated with flows of nearby streams, an estimate of the runoff can be determined.

DEPARTMENT REPORTS OF BASIC WATER RESOURCES DATA

Reports issued annually by the Department of Water Resources to record basic hydrologic data and to present conditions of water supply include the following:

Bulletin Series No.	Name
23	Surface Water Flow (formerly Sacramento-San Joaquin Water Supervision)
39	Water Supply Conditions in Southern California
65	Quality of Surface Waters in California
66	Quality of Ground Waters in California
77	Ground Water Conditions in Central and Northern California
--	Water Conditions in California (published in February, March, April, and May of each year)

NORTH COASTAL REGION

NORTH COASTAL REGION

Introduction

The North Coastal Region covers the same portion of Northern California as does the North Coastal Water Pollution Control Region 1, and is shown on Plate 1. The stream systems within this region drain the western slopes of the Coast Range north of Marin County, the Klamath Mountains, and a portion of the Cascade Range. Data tabulated in this report show daily mean discharge at stations in the Shasta, Scott, and Trinity River basins.

Streamflow in this area results mostly from surface runoff but is sustained in late spring and early summer by melting snowpack in the eastern portion of the area, and through the summer and early fall by ground water seepage from a thick, absorptive soil mantle.

Though the 1960-61 streamflow conditions described in this report show that the State has undergone its third consecutive year of subnormal runoff conditions, the North Coastal area again reports near normal runoff. Early winter precipitation and runoff were below average but during February and March were heavy enough to bring conditions up to average except in the southerly portion of the area.

Tabular Information

On the following pages data are tabulated for 9 gaging stations for the 1961 water year.

TABLE 1

GAGING STATION DESCRIPTION
NORTH COASTAL REGION
NORTHERN BRANCH

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
BIO CREEK NEAR HAYFORK																
40 33 11	123 08 35	SE 7 31N 11W	405	7.73	1/31/61	1540E	9.25	2/18/58	19360	18250	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL
Station located 30 ft. above Hayfork-Douglas City Highway bridge, 2 mi. E of Hayfork. Tributary to South Fork Trinity River via Hayfork Creek. Flow influenced by upstream diversion dam of City of Hayfork. Drainage area is 27.3 sq. mi. (f)																
BROWNS CREEK NEAR DOUGLAS CITY																
40 38 35	122 58 46	SE10 32N 10W	932	12.28	1/31/61	3950E	16.60	2/18/58	35600	40600	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located at private bridge, 2.1 mi. W of Douglas City. Tributary to Trinity River. Stage-discharge relationship at times affected by ice. Drainage area is 71.4 sq. mi. (f)																
ETNA CREEK NEAR ETNA																
41 25 53	122 54 57	NE 6 41N 9W	736	9.31	2/9/61				43100	40960	SEP 50-JUN 55 JUN 56-DATE	SEP 50-JUN 55 JUN 56-DATE	1957		0.00	LOCAL
Station located S of Sawyers Bar-Etna Highway, 2.1 mi. SW of Etna. Tributary to Scott River. Stage-discharge relationship at times affected by ice. Flow influenced by upstream diversion dam of City of Etna. Drainage area is 20.1 sq. mi. (f)																
LITTLE SHASTA RIVER NEAR MONTAGUE																
41 45 11	122 17 58	NW15 45N 4W	136	2.95	12/1/60				8076	7505	28-NOV 51 δ APR 52-APR 55 SEP 56-DATE	28-NOV 51 δ APR 52-APR 55 SEP 56-DATE	δ1956		0.00	LOCAL
Station located S of Ball Mountain Road, 12 mi. NE of Montague, 16 mi. SW of MacDoel. Stage-discharge relationship at times affected by ice. Drainage area is 48.1 sq. mi. (f)																
MOFFETT CREEK NEAR FORT JONES																
41 38 01	122 44 46	NE27 44N 8W	227	2.65	2/11/61				8753	6218	OCT 52-OCT 54 JUN 57-DATE	OCT 52-OCT 54 JUN 57-DATE	1957		0.00	LOCAL
Station located 90 ft. above Old Fort Jones-Yreka Highway bridge, 5.1 mi. NE of Fort Jones. Tributary to Scott River. Stage-discharge relationship at times affected by ice. Drainage area is 69.8 sq. mi. (f)																
NORTH FORK TRINITY RIVER AT HELENA																
40 46 56	123 07 39	SW21 34N 11W	6740	14.01	2/11/61	13500	19.66	1/12/59	293700	271800	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Stage-discharge relationship at times affected by ice. Drainage area is 151 sq. mi. (f)																
SHASTA RIVER NEAR EDGEWOOD																
41 28 20	122 26 18	SE20 42N 5W				445	3.20	4/21/61			MAR 61-DATE	MAR 61-DATE	1961		0.00	LOCAL
Station located on downstream side of Edgewood Road Bridge, 1.2 mi. N of Edgewood. Tributary to Dwinnell Reservoir. Stage-discharge relationship at times affected by ice. (f)																

E - Estimated
(a) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 1

GAGING STATION DESCRIPTION
NORTH COASTAL REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
SHASTA RIVER NEAR WEED																
41 24 30	122 25 50	SW 9 41N 5W	387	15.05	2/11/61		16.68	2/24/58			JAN 58-DATE	JAN 58-DATE	1958			LOCAL
Station located 300 ft. below Edgewood Road bridge, 2.8 mi. SW of Weed. Stage-discharge relationship at times affected by ice. Drainage area is 26.6 sq. mi. (f)																
WEAVER CREEK NEAR DOUGLAS CITY																
40 40 13	122 56 33	SE36 33N 10W	5390E	9.68	1/31/61	5390E	9.68	1/31/61	39110	37570	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 0.2 mi. below U. S. Highway 299 bridge, 1.2 mi. N of Douglas City, 4.2 mi. S of Weaverville. Tributary to Trinity River. Drainage area is 48.4 sq. mi. (f)																

E - Estimated
(s) - Record of atage published

δ - Irrigation season only

- Flood season only
(f) - Record of flow published

TABLE 2

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

NORTH COASTAL REGION

ADDITIONAL STATIONS
Shasta River near Edgewood

DISCONTINUED STATIONS
None

PUBLICATION DISCONTINUED
None

TABLE 3

DAILY MEAN DISCHARGE
SHASTA RIVER NEAR WEED

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	4.4	NR	NR	96	35	48	60	104	41	6.8	3.1
2	1.6	4.5	NR	NR	99	34	65	52	119	39	6.1	2.9
3	1.6	4.4	NR	NR	81	32	87	45	127	38	7.0	2.8
4	1.7	4.1	NR	17• E	61	31	89	40	149	35	7.9	2.9
5	2.1•	4.3	NR	17 E	50	34	71	35	137	34	12	2.9
6	5.6	4.6	NR	17	55	32	62	40	131	31	13	2.7
7	3.6	5.0	NR	17	48	29	53	34	123	29	11	2.7
8	3.6	4.9	NR	18	52•	36	44	34	114	25	10	2.6
9	3.4	4.7•	NR	20	131	32•	43	70	104	23	9.6	2.4
10	3.4	4.7	NR	19	212	30	40	86	97	21	8.3	2.6
11	3.1	7.2	NR	18	255	37	41	70	104	21	8.3	2.8
12	3.2	13	24• E	17	154	33	45	56	97	21	11	2.6
13	3.1	13	24	18	125	34	38•	48	97	27	11	2.1
14	3.0	11	23	18	107	66	36	47	105	26	8.8	2.3•
15	2.9	NR	30	18	127	115	35	51•	115•	20	7.4•	2.3
16	3.0	NR	56 E	17	92	70	40	57	117	18	6.6	5.6
17	3.1	NR	NR	18	76	68	49	64	116	17	6.0	7.2
18	3.8	NR	NR	17	65	54	46	75	107	17•	5.5	5.6
19	4.7	NR	NR	17	58	61	37	90	99	19	5.5	4.2
20	4.6	NR	NR	18	53	49	32	101	94	16	5.3	3.8
21	4.4	NR	NR	18	49	46	60	100	90	14	5.4	3.8
22	4.3	NR	NR	19	47	72	54	97	89	14	4.9	3.7
23	4.3	NR	NR	25	45	64	39	91	87	14	4.2	3.6
24	4.3	NR	NR	23	43	62	36	83	83	13	3.1	3.9
25	4.6	NR	NR	22	42	53	33	83	77	13	3.0	3.9
26	4.7	NR	NR	24	39	56	33	86	73	11	2.9	3.9
27	4.6	NR	NR	27	38	50	33	76	67	9.5	3.1	4.0•
28	4.6	NR	NR	25	35	44	32	75	59	9.6	3.4	4.1
29	4.3	NR	NR	28		41	48	74	50	8.7	3.8	4.2
30	4.3	NR	NR	45		42	44	95•	43	8.4	3.2	4.0
31	4.2		NR	155		43		77		6.6	3.2	
Mean	3.6				83.4	47.9	47.1	67.5	99.1	20.6	6.7	3.5
Max Mean	5.6				255	115	89	101	149	41	13	7.2
Min. Mean	1.6				35	29	32	34	43	6.6	2.9	2.1
Ac.-Ft.	221				4631	2945	2803	4149	5899	1269	411	209

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 4

DAILY MEAN DISCHARGE
SHASTA RIVER NEAR EDGEWOOD

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2							104	85	125	23	4.8	9.2
3							125	79	148	22	5.1	8.7
4							163	73	154	19	5.2	8.4
5							178	67	196	16	5.5	8.9
6							146	61	169	15	6.8	7.7
7							132	71	161	16	7.4	7.0
8							114	68	145	15	8.1	7.1
9							83	46	135	12	9.7	7.7
10							77	97	121	10	9.1	8.3
11							71	134	107	9.0	8.5	8.5
12							55	117	120	9.1	8.4	8.7
13							60	96	111	11	10	8.4
14							54•	86	103	14	11	8.9
15							48	73	107	12	9.6	9.0
16							32	62•	116•	11	8.3	9.6
17							35	62	115	10	7.1	14
18							44	66	108	9.2	7.0	18
19							44	74	100	8.7•	6.7	21
20							39	90	89	8.6	7.9	20
21							36	107	82	7.4	8.8	18
22							140	111	78	7.2	9.3	19
23							147	107	75	6.7	7.4	17
24							100	97	75	6.6	5.9	17
25							76	87	69	6.9	5.2	17
26							54	84	53	7.0	4.9	17
27							45•	84	47	7.7	6.1	16
28							36	77	41	7.3	8.1	16•
29							30	73	37	7.4	9.0	15
30							56	77	32	7.2	11	16
31						98• E	69	154•	27	6.6	9.4	15
						100		99		5.6•	9.4	
Mean							79.8	85.9	102	10.8	7.8	12.7
Max Mean							178	154	196	23	11	21
Min. Mean							30	46	27	5.6	4.8	7.0
Ac.-Ft							4746	5284	6042	663	477	758

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 5

DAILY MEAN DISCHARGE
LITTLE SHASTA RIVER NEAR MONTAGUE

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	2.3	61	6.2	7.6	8.6	38	23	32	6.4	3.0	3.6
2	1.9	2.3	25	4.1	7.4	10	47	21	56•	6.4	2.9	3.9
3	2.0	2.4	11	5.2	7.4	7.5	51	22	40	6.7	2.6	3.6
4	1.8	2.6	7.0	5.7•	7.4	7.4	48	19	35	6.4	2.5	2.9
5	1.9	3.1	4.2	4.1	7.6	6.6	36	18	33	6.1	2.8	3.0•
6	2.9	3.0	5.1	4.9	7.8	5.8	30	20	31	6.2	2.7	3.4
7	2.6	2.8	5.6	4.6	8.0	7.7	27	19	29	5.8	2.3	3.1
8	2.5	2.7	4.2	4.4	8.5•	6.7	24	20	27	5.4	2.4	2.9
9	2.1	2.6•	3.8	4.4	26	6.2	26	29	28	4.8	2.7	2.8
10	2.1	2.2	3.9	4.3	32	7.4•	26	47	23	4.8	2.6	2.9
11	2.1	2.9	3.6	4.4	53	9.4	27	27	22	4.7	2.8	2.4
12	2.1	2.9	3.6•	4.4	27	10	28	23	22	4.2	2.7	2.2
13	2.1	3.1	4.2	4.8	20	21	22	22	20	4.5	2.9	2.6•
14	2.1	2.8	4.7	4.6	18	23	20•	21	18	3.7	2.4	2.9
15	2.2	2.8	5.1	4.9	25	20	24	23	15	3.7	2.7	2.8
16	2.1	2.9	13	4.8	19	16	29	23•	14•	3.3	2.6•	3.7
17	2.1	3.4	63	5.7	14	14	31	22	13	3.5	2.5	5.2
18	2.1	5.3	38	5.3	10	13	24	22	13	3.8	2.9	4.4
19	2.1	3.4	23	5.7	10	14	20	23	12	3.5•	2.4	3.9
20	2.1	3.1	14	5.6	9.8	12	18	23	11	3.3	3.1	3.6
21	2.0	3.3	12	5.2	10	12	17	23	10	2.9	3.0	3.6
22	2.0	2.7	10	5.1	12	29	18	23	9.2	2.8	2.9	3.1
23	2.2	3.6	10	5.2	9.4	32	18	24	9.3	2.8	3.0	3.0
24	2.2	6.5	9.2	5.2	8.8	30	18	22	8.7	2.8	2.5	3.0
25	2.2	7.3	7.9	5.6	7.6	23	18	21	8.2	3.3	2.9	3.0
26	2.9	5.5	7.3	5.7	7.8	22	19	24	8.1	3.0	3.1	3.0
27	2.5	4.1	6.2	5.6	7.6	21	20	22	8.4	2.8	3.9	3.0•
28	2.7	4.0	5.0	5.5	8.4	25	21	24	7.8	2.7	4.1	3.0
29	2.6	3.9	7.8	6.2		33	22	27	7.3	2.6	4.0	3.0
30	2.4	3.9	6.7	5.9		35	23	37	7.0	2.8	3.8	3.0
31	2.4		6.6	7.5		34		30		3.0	3.5	
Mean	2.2	3.4	12.6	5.2	14.2	16.8	26.3	24.0	19.3	4.2	2.9	3.2
Max. Mean	2.9	7.3	63	7.5	53	35	51	47	56	6.7	4.1	5.2
Min. Mean	1.8	2.2	3.6	4.1	7.4	5.8	17	18	7.0	2.6	2.3	2.2
Ac.-Ft.	137	205	777	319	788	1036	1567	1476	1146	255	179	191

E - Estimated NR - No Record

Total Discharge in Acre-Feet 8076

• Discharge measurement (or observation of no flow) made on this day.

TABLE 6

DAILY MEAN DISCHARGE
ETNA CREEK NEAR ETNA

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	3.0	56	28	94	62	109	142	186	23	4.3	2.2
2	2.2	2.8	43	28	178	66	169	129	207	21	4.2	2.2
3	2.0	2.5	36	27	135	63	230	118	200	20	3.9	2.1
4	2.2	2.5	31	27	100	60	235	108	195	19	3.7	2.1
5	2.1	2.6	27	25•	86	60	192	101	193	18	4.7	2.0
6	4.0	2.6	24	23	96	57	168	99	178	17 E	4.2	2.1
7	4.8	2.8	22	24	86	51	150	91	146	16 E	4.0	2.2
8	4.0	2.8	22	22	86	51	135	91	135	15 E	4.0	2.0
9	3.1	2.8	20	30	449•	50•	136	130	118	14 E	3.7	1.9
10	3.0	2.9•	19	27	460	48	127	155	111	14 E	3.5	1.9
11	3.0	7.1	18	25	449	49	132	130	111	13 E	3.5	1.9
12	2.9	4.1	18	24	239	55	152	114	101	13 E	3.4	1.9
13	2.9	4.2	17•	23	187	83	124•	107	103	12 E	3.2	2.3
14	3.1	4.3	19	24	163	108	111	109	119	12 E	3.1	2.3
15	2.9	4.4	19	23	152	106	112	121•	120	11 E	2.9•	2.6
16	2.7	5.4	28	22	124	92	145	143	109	10 E	2.9	9.7
17	2.7	29	101	21	108	85	174	172	97	9.6 E	2.7	6.6
18	2.6	37	186	21	93	76	155	205	84	8.9•E	2.6	4.9
19	2.5	11	140	20	86	78	123	235	75	7.8	2.5	3.9
20	2.6	11	86	20	81	74	107	251	69	7.3	2.5	3.6
21	2.6	16	68	20	79	71	97	215	61	7.3	2.4	3.3
22	2.5	10	59	20	80	127	86	197	57	6.5	2.2	3.1
23	2.4	116	53	23	76	136	79	173	51	6.1	2.2	3.2
24	2.9	293	47	23	70	113	73	153	47	5.9	2.2	3.0
25	2.7	167	44	22	67	98	70	159	42	5.6	2.2	3.0
26	4.1	72	41	22	63	90	69	171	37	5.3	2.4	2.9
27	3.5	45	38	22	60	81	71	139	33	5.1	2.5	3.0
28	3.2	35	36	22	56	77	81	137	30	4.9	2.8	2.8•
29	3.1	29	33	32		76	107	153	27	4.5	3.6	2.9
30	2.9	28	31	43		78	112	154	25	4.3	2.5	2.7
31	2.7		29	149		88		150		4.3	2.2	
Mean	2.9	31.9	45.5	28.5	143	77.7	128	147	102	11.0	3.1	3.0
Max. Mean	4.8	293	186	149	460	136	235	251	207	23	4.7	9.7
Min. Mean	2.0	2.5	17	20	56	48	69	91	25	4.3	2.2	1.9
Ac.-Ft.	179	1896	2799	1749	7940	4778	7599	9029	6083	677	192	179

E - Estimated NR - No Record

Total Discharge in Acre-Feet 43100

• Discharge measurement (or observation of no flow) made on this day.

TABLE 7

DAILY MEAN DISCHARGE
MOFFETT CREEK NEAR FORT JONES

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	6.1 E	38	17	10	21	30	14	6.6	1.7	1.0	0.6
2	0.6	5.9 E	40	16	15	24	29	14	7.4	1.7	1.1	0.7
3	0.6	6.9	25	14	21	24	26	14	8.1	1.6	1.0	0.9
4	0.8	7.0 E	18	13	24	23	29	13	8.6	1.9	1.4	1.0
5	1.2	5.3 E	12	12•	23	24	26	14	7.3	2.3	1.4	1.0
6	1.4	4.7 E	18	7.4	23	25	25	12	7.0	2.1	1.2	1.1
7	2.2	4.7 E	18	7.6	22	25	25	11	6.5	1.9	1.5	1.1
8	2.4	4.2 E	18	7.4	20	24	25	11	5.6	1.8	1.7	1.2
9	2.6	2.0 E	16	7.8	22•	22•	24	11	4.8	2.0	1.6	1.2
10	2.8	0.8• E	16	8.0	29	24	23	12	4.6	2.2	1.3	1.0
11	2.5	0.7	15	9.1	185	22	22	13	5.0	2.1	1.5	1.1
12	2.0 E	1.1	10	9.1	144	23	23	12	4.7	2.0	1.4	1.0
13	1.7 E	1.3	7.6•	9.3	105	24	23•	11	4.3	2.3	1.2	0.9
14	1.5 E	1.4	6.9	8.5	83	27	20	11	3.9	1.7	0.7	0.9
15	1.5 E	1.6	7.1	8.5	75	32	20	11•	3.5•	1.4	0.6•	1.1
16	1.5 E	1.3	7.1	8.5	56	36	16	11	3.8	1.9	0.7	1.6
17	1.4 E	1.3	12	8.8	52	38	14	10	3.4	2.0	0.7	1.4
18	1.3 E	1.7	19	8.2	50	35	14	9.7	3.0	1.6•	0.7	1.3
19	1.7	1.8	29	7.6	42	35	15	8.6	2.5	1.2	0.6	1.1
20	1.8 E	1.6	30	7.1	37	33	15	7.6	2.2	1.5	0.5	1.1
21	1.7 E	1.8	31	6.9	36	28	16	7.4	2.2	1.4	0.5	1.2
22	1.7 E	1.5	31	6.4	36	34	17	7.2	2.2	1.3	0.7	1.0
23	2.4 E	3.0	26	7.2	33	35	17	7.1	2.1	1.4	0.7	1.0
24	3.4 E	4.2	26	6.9	32	39	17	7.0	1.8	1.2	0.4	0.9
25	4.3 E	8.3	24	6.9	30	39	16	7.0	2.0	1.2	0.4	1.0
26	5.3 E	5.8	23	6.9	27	39	16	6.6	1.5	1.3	0.5	0.9
27	6.1 E	5.1	23	6.9	24	38	14	5.6	1.4	1.2	0.6	0.8
28	6.1 E	5.5	20	6.9	24	33	13	5.1	1.6	1.0	0.6	0.9•
29	5.9 E	7.2	20	6.6		32	12	5.9	1.2	1.1	0.5	1.0
30	5.9 E	5.0	19	6.9		32	13	6.1	1.2	1.0	0.4	1.0
31	5.9 E		18	11		29		6.9		1.0	0.4	
Mean	2.6	3.6	20.1	8.9	45.7	29.6	19.8	9.8	4.0	1.6	0.9	1.0
Max. Mean	6.1	8.3	40	17	185	39	30	14	8.6	2.3	1.7	1.6
Min. Mean	0.6	0.7	6.9	6.4	10	21	12	5.1	1.2	1.0	0.4	0.6
Ac.-Ft.	160	216	1237	544	2539	1823	1180	601	238	99	55	61

E – Estimated NR – No Record

Total Discharge in Acre-Feet 8753

• Discharge measurement (or observation of no flow) made on this day.

TABLE 8

DAILY MEAN DISCHARGE
WEAVER CREEK NEAR DOUGLAS CITY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	5.1	244	18	289	46	105	56	51	11	2.1	1.4
2	1.9	5.4	70	17	516•	44•	114	52	59	10	2.8	1.7
3	1.9	5.1	33	16	252•	43	126	51	57	10	2.2	1.8
4	2.1	4.7	21	15	141	42	120	48•	52	9.9	1.8	1.7
5	2.7	4.7	16	15•	94	52	108	47	49	9.5	2.1	1.4
6	3.9	5.0	13	15	78	67	100	48	45	9.1•	2.7	1.3
7	4.3	4.9	12	16	67	56	94•	45	42•	8.6	2.5•	1.5
8	4.8	4.9	11	16	69	82	88	44	40	8.1	5.1	1.6
9	4.3	5.5	10	17	535	92	87	47	37	7.3	5.4	1.7
10	3.9	5.8	10	17	361	92	85	49	36	6.2	3.1	1.6
11	4.1	7.8	9.2	15	953	104	84	48	35	5.7	3.1	1.4
12	4.1	8.7	8.8	14	366	97	83	44	34	5.2	3.2	1.3
13	4.1	13	8.5	14	256	105•	76	43	32	4.4	2.6	1.1
14	4.2•	10•	8.5	14	232	170	76	44	32	4.1	2.4	1.0
15	4.4	9.1	8.7	13	216	313	74	45	30	4.0	2.0	1.4
16	4.1	8.1	71	14	160	247	75	47	29	3.8	2.3	6.8
17	4.0	9.1	467	14	133	402	77	49	28	3.4	2.1	7.4
18	4.2	20	150	13	107	265	73	53	25	3.1	1.7	4.7
19	4.3	12	99	13	93	247	68	58	22	2.9	1.8	3.8
20	4.7	9.6	67	14	85	227	67	60	21	2.9	2.0	3.2
21	4.7	10	50	13	81	197	70	56	19	2.8	1.7	2.8
22	4.1	8.6	43	13	74	190	71	56	18	2.6	1.3	2.6
23	4.0	15	38	15	68	180	64	53	17	2.4	1.2	2.6
24	3.9	39	34	14	66	179	58	49	15	2.1	1.3	2.5
25	4.3	122	32	14	63	158	55	48	14	2.3	1.3	2.4
26	4.6	36	29	16	56	177	53	51	12	2.2	1.6	2.4
27	5.0	19	26	17	53	149	53	45	12	2.0	2.2	2.3
28	4.7	15	24	17	47	127	53	44	12	2.6	2.1	2.1
29	5.3	13	22	69		112	57	44	12	1.7	2.0	2.1
30	5.2	14	20	132		106	52	45	11	1.8	2.0•	2.3
31	4.7		20	1850		102		45		2.0	2.1	
Mean	4.0	15.0	54.1	79.7	197	143	78.9	48.8	29.9	5.0	2.3	2.4
Max Mean	5.3	122	467	1850	953	402	126	60	59	11	5.4	7.4
Min. Mean	1.9	4.7	8.5	13	47	42	52	43	11	1.7	1.2	1.0
Ac.-Ft	247	803	3324	4899	10930	8801	4693	3003	1781	305	142	143

E – Estimated NR – No Record

Total Discharge in Acre-Feet [illegible]

• Discharge measurement (or observation of no flow) made on this day.

TABLE 9

DAILY MEAN DISCHARGE
BROWNS CREEK NEAR DOUGLAS CITY

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	6.9	219	22 E	342	61	120	57	26	12	3.5	1.9
2	3.8	6.9	127	21 E	374*	58*	124	55	34	11	3.4	2.2
3	3.6	6.0	76	22 E	330	56	125	52	30	10	2.9	2.6
4	3.5	5.7	52	22* E	227	54	117	48*	27	9.6	2.5	1.8
5	4.5	6.8	38	23 E	161	58	105	46	26	9.2	2.5	1.8
6	8.5	7.5	30	23	126	62	97	47	24	9.6*	4.1	1.2
7	10	8.1	26	20	108	54	89*	45	24*	9.5	3.0*	1.8
8	8.8	8.2	23*	20	101	62	82	43	24	9.2	4.7	2.4
9	7.6	7.9	21	20	232	69	78	44	23	8.6	4.7	1.9
10	7.3	7.5	20	19	267	73	75	45	21	7.6	3.3	1.5
11	7.0	9.1	20	19	402	82	71	45	20	5.9	2.7	1.6
12	7.2	10	19	18	343	82	70	44	19	5.5	3.3	2.1
13	7.6	15	19	18	273	83*	66	40	18	6.3	3.4	1.9
14	7.5*	14*	18	18	214	113	62	39	17	6.6	3.5	1.9
15	7.3	12	19	18	197	243	59	39	17	5.2	3.3	1.7
16	7.0	11	39	18	173	236	59	36	17	5.3	2.8	6.5
17	7.3	12	240	17	154	336	58	34	16	4.6	2.9	9.2
18	7.1	19	183	17 E	133	287	57	33	15	4.4	2.3	6.9
19	6.9	16	128	16 E	119	268	56	33	14	4.1	2.1	5.9
20	7.0	13	98	17 E	106	250	55	33	14	4.1	2.6	5.2
21	7.3	13	77	16 E	99	220	67	32	13	4.6	2.2	4.7*
22	6.6	12	62	16	92	223	76	31	13	4.1	1.9	4.7
23	6.6	15	52	17	85	222	69	30	13	2.9	1.6	4.5
24	6.6	18	45	17	80	216	66	29	13	2.9	1.5	4.2
25	6.9	40	40	17	76	193	64	28	13	2.9	1.4	4.3
26	6.9	32	36	23	72	178	65	29	12	2.8	1.6	4.9*
27	7.2	20	33	42	68	160	64	28	11	3.4	2.9	4.8
28	7.1	17	30	36	65	143	61	26	11	3.8	3.7	4.5
29	6.9	16	28	113		129	62	26	12	3.5	4.3	4.3
30	6.9	21	26	220		125	59	28	11	3.7	3.7	4.4
31	7.0		25	639		121		30		3.4	3.0	
Mean	6.7	13.6	60.3	49.8	179	146	75.9	37.9	18.3	6.0	2.9	3.6
Max. Mean	10	40	240	639	402	336	125	57	34	12	4.7	9.2
Min. Mean	3.5	5.7	18	16	65	54	55	26	11	2.8	1.4	1.2
Ac.-Ft.	415	806	3707	3062	9955	8959	4518	2331	1087	370	181	213

E – Estimated NR – No Record

Total Discharge in Acre-Feet 35600

* Discharge measurement (or observation of no flow) made on this day.

TABLE 10

DAILY MEAN DISCHARGE
NORTH FORK TRINITY RIVER AT HELENA

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	36	1090	193	1630	360	970	540	466	179	53	39
2	15	37	998	185	1880*	372*	1300	502	654	183	51	41
3	15	38	602	177	1690*	353	1530	466	725	178	50	38
4	17	38	423	168	1090	334	1500	426	831	164	50	38
5	17	38	328	159*	797	362	1220	404	690	155	53	33
6	39	39	272	156	669	384	1020	412	619	137*	61	31
7	47	37	234	156	566	360	896	398	548	130	60*	30
8	88	36	212*	153	525	408	775	391	494	132	58	28
9	50	36	197	159	2080	478	742	475	432	136	57	28
10	41	37	183	161	2770	494	679	575	417	141	51	27
11	36	50	163	153	4970	625	669	569	434	143	49	26
12	32	47	154	143	2410	652	707	536	390	155	53	26
13	30	48	150	136	1600	844	597	511	408	167	50	25
14	30*	50*	149	135	1390	1570	568	496	493	156	48	23
15	32	47	150	132	1650	2170	518	518	553	127	47	24
16	34	45	281	128	1430	1550	605	547	543	110	43	33
17	35	130	1770	123	1120	1370	670	594	503	97	40	35
18	36	341	1840	119	869	1180	560	641	458	92	38	36
19	37	117	1390	117	704	1070	479	705	412	91	37	33
20	38	79	862	115	624	1040	442*	667	393	85	37	31
21	38	101	616	114	578	904	433*	601	386	80	36	28*
22	38	78	496	113	561	1120	409	595*	399*	79	34	27
23	39	330	431	138	514	1380	382	514	362	79	34*	26
24	38	1200	377	138	478	1270	365	447	365	75	33	25
25	37	1830	337	129	449	1100	368	454	373	71	33	24
26	34	639	309	135	412	997	384	482	337	71	31	23*
27	32	380	281	149	387	904	399	404	281	67	34	22
28	33	273	256	150	359	793	431	379	231	61	32	22
29	33	221	238	249		736	498	391	201	58	45	22
30	34	216	224	505		758	494	421	182	55	33	22
31	35		207	4010		851		391		54	33	
Mean	34.7	220	491	284	1222	864	687	499	453	113	43.9	28.8
Max. Mean	88	1830	1840	4010	4970	2170	1530	705	831	183	61	41
Min. Mean	15	36	149	113	359	334	365	379	182	54	31	22
Ac.-Ft.	2134	13080	30190	17450	67840	53140	40880	30650	26940	6958	2701	1712

E – Estimated NR – No Record

Total Discharge in Acre-Feet 293700

* Discharge measurement (or observation of no flow) made on this day.

TABLE 11

DAILY MEAN DISCHARGE
BIG CREEK NEAR HAYFORK

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	1.3	142	12	131	41	86	27	13	5.4	0.2	0.6
2	0.4	1.7	69	12	153•	39•	94 E	24	13	2.0	0.4	0.4
3	0.5	1.5	32	12	117	37	81 E	23	16	1.9	0.6	0.7
4	0.5	1.6	22	11•	85	37	81 E	23•	20	2.2	0.3	0.2
5	1.1	1.9	16	11	65	38	79 E	22	22	1.5	0.2	0.6
6	0.9	4.3	15	11	56	42	79 E	22	19	1.7•	0.5	0.3
7	1.3	5.3	13	11	48	36	65• E	21	19	1.9	0.8•	0.7
8	0.7	3.8	12	11	45	42	60	21	17	1.8	0.9	0.5
9	0.8	3.6	11	10	121	44	55	22	16	1.5	0.7	0.7
10	1.0	3.8	11	11	132	46	52	22	15	1.1	0.4	0.2
11	0.9	4.6	9.6	10	244 E	55	48	24	14	1.1	0.6	0.6
12	0.8	5.3	9.3	9.2	174	55	49	21	13	1.0	0.8	0.5
13	0.8	7.1	9.5	8.7	132	67	45	19	9.8	1.1	0.7	0.1
14	0.7•	7.9•	9.4	9.4	112	111	40	20	8.9	1.2	0.6	0.6
15	0.3	6.5	11	8.6	143	186	35	19	8.8	1.3	0.7	0.6
16	0.9	5.6	40	8.6	113	146	32	17	8.6	0.8	0.3	1.0
17	1.0	6.2	216 E	8.5	102	143	31	17	8.3	1.1	0.5	1.3
18	1.2	17	111	8.3	86	109	31	17	7.9	0.6	0.2	0.9
19	1.3	9.3	68	8.9	75	124	29	16	7.6	0.8	0.5	1.0
20	1.4	7.0	47	8.8	68	133	29	15	7.4	0.6	0.4	0.7
21	0.9	6.8	36	8.5	64	118	29	16	7.7	0.5	0.7	1.0
22	0.4	6.1	30	8.3	60	132	29	15	7.2•	0.7	0.5	0.4
23	0.6	10	25	10	55	140	29	15	6.9	0.5	0.1	1.4
24	1.4	31	22	9.6	53	129	27	14	8.1	1.0	0.1	0.7
25	1.5	43	20	9.4	50	113	30	14	8.1	0.5	0.1	0.6
26	1.7	21	17	12	46	105	29	14	7.0	0.3	0.8	0.7•
27	1.6	14	16	14	44	99	30	13	6.8	0.6	1.2	0.8
28	1.3	11	15	13	43	90	29	14	7.1	0.6	0.8	0.1
29	1.1	8.9	14	39		85	31	15	7.3	0.2	1.1	0.5
30	1.6	11	14	69		83	27	15	7.3	0.4	0.7	0.8
31	1.3		13	295 E		85		13		0.6	0.6	
Mean	1.0	8.9	35.3	22.2	92.8	87.4	46.4	18.4	11.3	1.2	0.5	0.6
Max Mean	1.7	43	216	295	244	186	94 E	27	22	5.4	1.2	1.4
Min. Mean	0.3	1.3	9.3	8.3	43	36	27	13	6.8	0.2	0.1	0.1
Ac-Ft.	60	532	2173	1366	5151	5375	2759	1131	670	72	34	38

E - Estimated NR - No Record

Total Discharge in Acre-Feet 19360

• Discharge measurement (or observation of no flow) made on this day.

CENTRAL VALLEY REGION

CENTRAL VALLEY REGION

Introduction

The Central Valley Region covers the same portion of Central California as the Central Valley Water Pollution Control Region 5, and is shown on Plate 1. The Central Valley Region contains three separate physiographic areas: the Sacramento River Basin, the San Joaquin Basin, and the Sacramento-San Joaquin Delta. Most of the low-lying areas are highly developed and items of interest are adequate and timely water supply, flood stages, and salinity incursion in the Delta.

Streamflow in the area results from surface runoff, snow pack melt, ground water seepage, and irrigation return flows. All of the major streams in the area have their flow controlled to some degree by reservoirs of which nearly all serve to develop a water supply, with some diverting water for use.

The 1960-61 water year was the third successive dry year and for the Central Valley Region was the third driest year of record. Throughout the area, precipitation was about 75 percent of normal and runoff was 55 percent of normal.

Tabular Information

On the following pages data are tabulated for streamflow, stages, salinity, diversions, and supplementary data for the 1961 water year.

TABLE 12

MONTHLY PRECIPITATION[a]

In inches

Station		1960			1961									Water Year Total
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
Shasta Dam	1960-61	.53	8.29	13.04	8.70	6.51	8.51	.98	3.32	1.00	.21	.05	.38	51.52
	Average[a]	3.87	5.92	9.93	10.42	10.69	6.38	4.22	2.15	1.38	.19	.16	.59	55.90
Redding Fire Station 2	1960-61	.39	5.80	8.44	2.90	5.32	5.97	2.00	2.04	.75	T	.02	.54	34.17
	Average	1.96	4.07	6.73	7.41	6.30	4.79	2.76	1.63	1.01	.11	.10	.58	37.45
Red Bluff Airport	1960-61	.75	6.16	4.48	2.62	2.91	3.05	.65	1.03	.27	T	.07	.96	22.95
	Average	1.04	2.11	3.74	3.78	2.98	2.56	1.37	.87	.43	.03	.06	.44	19.41
Orland	1960-61	.42	4.52	3.89	3.39	2.72	2.57	.25	.49	.49	.16	.09	1.01	20.00
	Average	.86	1.81	3.60	3.57	3.02	2.40	1.28	.56	.35	.02	.04	.32	17.83
Chico Experiment Station	1960-61	.44	5.44	2.10	5.35	3.70	4.19	.99	.66	.44	.01	.10	.40	23.82
	Average	1.20	2.62	4.96	5.02	4.38	3.29	1.91	1.03	.44	.02	.05	.40	25.32
Colusa 1 SSW	1960-61	.16	3.39	1.66	3.46	1.77	2.05	.31	.46	.63	.00	.03	.34	14.26
	Average	.68	1.64	3.14	3.06	2.73	2.13	1.02	.50	.21	.01	.02	.23	15.37
Marysville	1960-61	.20	4.52	1.29	2.85	2.37	2.75	.62	*	.79	.00	.00	.08	15.53
	Average	.94	2.16	3.99	4.05	3.63	2.88	1.42	.76	.24	.00	.02	.23	20.32
Woodland 1 WNW	1960-61	.14	3.66	1.30	3.34	1.23	2.14	.64	.16	.09	.00	.02	.17	12.89
	Average	.67	1.56	3.24	3.54	2.96	2.21	1.11	.49	.17	.00	.01	.20	16.16
Folsom Dam	1960-61	.03	5.30	1.20	2.48	2.07	3.46	1.00	.50	.01[E]	.00	.01	.26	16.32
	Average	1.02	2.30	4.24	5.04	4.34	3.57	1.76	.84	.25	.01	.01	.25	23.63
Sacramento City	1960-61	T	4.38	.70	3.11	1.19	2.02	.49	.13	.02	T	.01	.17	12.22
	Average	.79	1.67	3.48	3.87	3.31	2.59	1.32	.59	.19	.00	.02	.22	18.05
Davis 1 WSW	1960-61	.07	3.73	1.03	3.69	1.44	2.15	.46	.15	.03	.00	T	.12	12.87
	Average	.65	1.50	3.29	3.67	3.00	2.28	1.14	.49	.16	.00	.01	.18	16.37
Rio Vista	1960-61	.08	3.90	.56	2.74	.85	1.83	.97	.07	.00	.00	.08	.02	11.10
	Average	.60	1.40	2.97	3.29	2.69	2.19	1.03	.43	.14	.00	.01	.18	14.93
Lodi	1960-61	T	3.04	1.66	3.43	1.03	2.60	.89	.28	.02	T	.09	.36	13.40
	Average	.79	1.50	3.14	3.39	2.74	2.43	1.20	.58	.13	.00	.00	.19	16.09
Antioch Pump Plant 3	1960-61	.02	2.76	.60	2.33	.73	1.56	.66	.43	.04	.00	.00	.24	9.37
	Average	.51	1.15	2.62	2.79	2.23	1.81	.78	.36	.11	.01	.01	.21	12.59
Stockton Fire Station 4	1960-61	T	2.87	.98	3.25	.83	2.17	.72	.18	.08	T	.08	.39	11.55
	Average	.60	1.31	2.68	3.03	2.33	2.11	.99	.53	.12	.01	.00	.20	13.91
Tracy Carbona	1960-61	.00	2.28	.49	2.26	.73	1.11	.27	.27	.00	.00	.06	.28	7.75
	Average	.39	.78	1.65	1.81	1.46	1.37	.66	.41	.10	.00	.00	.13	8.76
Modesto	1960-61	.04	2.24	.51	2.78	.61	.95	.56	.64	T	.01	.10	.01	8.45
	Average	.50	1.02	2.31	2.29	1.99	1.97	.93	.45	.11	.01	.02	.16	11.76
Merced Fire Station 2	1960-61	.06	2.27	.48	2.14	.85	1.74	.55	.87	.00	.03	.00	.13	9.12
	Average	.47	1.15	2.03	2.46	2.12	1.99	1.03	.44	.08	.01	.01	.12	11.91
Los Banos	1960-61	.00	2.23	.22	1.62	.83	1.12	.22	.60	T	.02	T	T	6.86
	Average	.38	.83	1.56	1.80	1.43	1.44	.73	.30	.05	.01	.01	.10	8.64
Fresno Airport	1960-61	.09	2.75	.07	1.52	.40	1.04	.57	.40	.01	T	.10	T	6.95
	Average	.51	.80	1.63	1.90	1.61	1.68	.87	.32	.11	.01	.01	.08	9.53

a 1960-61 water year records from U. S. Weather Bureau. Average precipitation computed from the 50-year period 1905-55.

T Trace.

* Amount included in following measurement. Time distribution unknown.

E DWR estimate.

TABLE 13

MONTHLY UNIMPAIRED RUNOFF

In per cent of average*

Month		Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (a)
October 1960	Per Cent	82	103	89	77	54	41	25	'0	40	29	40	32
	Average*	472	275	418	93	28	22	4	8	15	7	20	50
November 1960	Per Cent	86	103	93	89	62	67	24	48	41	44	79	53
	Average	851	409	727	164	79	75	16	23	39	18	28	108
December 1960	Per Cent	82	128	89	61	38	23	24	26	42	40	53	42
	Average	1677	754	1421	329	171	167	33	47	78	40	58	223
January 1961	Per Cent	36	52	39	35	15	12	16	15	19	13	26	18
	Average	2428	1112	2073	446	239	276	45	68	108	60	74	310
February 1961	Per Cent	76	106	85	74	57	40	35	29	35	23	34	30
	Average	2817	1263	2372	526	273	310	55	84	135	79	92	390
March 1961	Per Cent	64	91	71	58	58	43	37	38	39	29	36	36
	Average	3058	1141	2442	621	309	371	79	122	180	99	136	537
April 1961	Per Cent	57	69	58	50	55	50	55	52	58	56	51	55
	Average	3675	1000	2658	782	402	474	132	206	286	149	244	885
May 1961	Per Cent	56	87	65	57	58	51	53	41	49	39	40	42
	Average	4007	714	2393	700	441	538	198	294	447	245	430	1416
June 1961	Per Cent	49	92	66	67	48	38	25	29	34	25	33	31
	Average	2596	456	1330	344	229	301	131	189	372	182	392	1135
July 1961	Per Cent	49	90	70	72	39	7	13	13	17	8	17	14
	Average	1008	319	604	156	57	72	23	53	115	50	163	381
August 1961	Per Cent	83	100	92	91	67	0	0	42	58	30	54	50
	Average	497	261	406	103	24	18	4	12	19	10	46	87
September 1961	Per Cent	90	103	94	84	57	46	50	80	44	25	50	50
	Average	410	250	370	86	21	13	2	5	9	4	20	38
1960-61 Water Year	Per Cent	61	90	70	61	50	40	39	35	40	33	38	37
	Average	23496	7954	17214	4350	2273	2637	722	1111	1803	943	1703	5560

* Average unimpaired runoff in thousands of acre-feet computed from the 50 year period October 1907 through September 1957.

a Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE 14

ANNUAL UNIMPAIRED RUNOFF

In percent of average*

Water Year	Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (a)
Average Annual Runoff*	23496	7954	17214	4350	2273	2637	722	1111	1803	943	1703	5560
1920-21	131	145	138	139	140	121	121	114	112	107	94	106
1921-22	113	84	105	117	131	125	128	128	138	152	139	139
1922-23	83	67	77	71	91	104	98	101	99	100	97	99
1923-24	32	41	34	29	27	21	26	23	30	27	26	27
1924-25	95	101	94	72	93	103	116	111	107	97	85	99
1925-26	66	71	69	73	70	52	52	54	62	64	68	63
1926-27	134	138	139	134	156	139	124	123	114	115	118	117
1927-28	93	96	98	97	107	96	89	86	84	78	68	79
1928-29	49	56	49	43	44	43	48	46	55	52	52	52
1929-30	74	77	78	89	80	63	64	66	64	54	52	59
1930-31	34	41	36	33	29	27	29	28	33	28	29	30
1931-32	87	64	76	75	93	99	103	122	117	118	121	119
1932-33	54	58	52	44	47	48	59	54	62	55	65	60
1933-34	48	57	50	47	44	42	41	39	45	38	41	41
1934-35	101	94	97	97	99	98	97	110	117	125	114	116
1935-36	105	89	101	98	114	129	124	119	120	123	110	117
1936-37	88	75	77	72	82	88	96	100	111	129	129	117
1937-38	188	184	184	196	178	171	172	184	190	220	216	202
1938-39	49	55	48	43	40	40	47	47	55	51	55	53
1939-40	127	132	130	129	126	130	119	126	123	116	112	119
1940-41	153	180	158	149	141	119	117	120	139	154	155	143
1941-42	143	142	146	152	150	148	137	134	132	136	133	133
1942-43	125	107	123	129	138	147	139	141	132	137	120	130
1943-44	62	59	60	64	61	56	62	61	73	73	70	69
1944-45	95	83	87	86	93	96	108	115	116	116	125	119
1945-46	102	101	102	95	105	109	103	106	105	100	102	104
1946-47	60	64	60	58	60	54	55	57	61	60	66	61
1947-48	88	96	91	88	89	85	88	80	78	73	71	76
1948-49	69	76	69	60	65	70	71	67	70	67	68	68
1949-50	85	72	83	88	98	101	104	97	86	76	77	84
1950-51	134	114	133	130	156	176	160	152	138	129	109	130
1951-52	168	145	166	182	182	188	183	172	170	166	179	173
1952-53	106	121	117	119	112	101	94	87	85	65	69	78
1953-54	94	116	102	96	85	76	73	80	80	71	75	77
1954-55	63	71	64	57	56	60	61	62	63	56	68	63
1955-56	175	166	174	183	175	177	173	169	183	179	179	177
1956-57	82	90	86	83	86	82	83	78	79	69	81	78
1957-58	166	190	173	160	155	155	147	151	147	150	155	150
1958-59	66	85	70	65	55	47	52	53	55	48	56	54
1959-60	70	81	76	74	75	64	58	54	59	51	49	53
1960-61	61	90	70	61	50	40	39	35	40	33	38	37

* Average unimpaired runoff in thouaands of acre-feet computed from the 50-year period October 1907 through September 1957.

a Figures were computed from aummationa of unimpaired runoff at foothill stationa on major tributaries only and do not include runoff from minor tributaries and from valley floor.

TABLE 15

SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA

In thousands of acre-feet

Item	Record in Table No.	1960			1961									Water Year Total
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
WATER SUPPLY														
Measured Inflow														
Sacramento River at Sacramento	54	473	696	1137	795	2151	1750	1007	806	651	648	704	576	11390
Sacramento Weir Spill to Yolo Bypass	55	0	0	0	0	0	0	0	0	0	0	0	0	0
Yolo Bypass near Woodland		0	0	14	4	96	29	5	2	1	1	1	1	155
South Fork Putah Creek near Davis	46	0	0	0	0	2	2	1	1	0	0	0	0	7
Cosumnes River at McConnell		0	1	3	1	10	12	9	7	1	0	0	0	44
Dry Creek near Galt		0	0	0	0	0	1	0	0	0	0	0	0	2
Mokelumne River at Woodbridge		3	10	12	12	8	2	1	1	1	0	0	3	55
Bear Creek near Lockeford		0	0	0	0	0	0	0	0	0	0	0	0	0
Calaveras River near Stockton	19	0	0	0	0	0	0	0	0	0	0	0	0	0
Stockton Diverting Canal at Stockton	21	0	0	0	0	1	0	0	0	0	0	0	0	1
Duck Creek near Stockton	56	0	0	0	0	0	0	0	0	0	0	0	0	1
French Camp Slough near French Camp	58	0	0	0	1	1	0	0	0	0	0	0	0	4
San Joaquin River near Vernalis	60	44	60	79	82	62	27	12	23	12	6	9	19	447
Precipitation (a)		0	187	41	166	46	104	29	16	1	0	1	9	600
Total Water Supply		520	954	1286	1061	2377	1927	1064	856	665	656	717	608	12696
WATER UTILIZATION														
Consumptive Use in Delta Lowlands (b)		106	49	36	26	31	46	101	147	166	224	240	179	1351
Exportations														
Delta-Mendota Canal	82	89	30	0	15	42	123	168	167	228	275	231	120	1488
Contra Costa Canal	82	8	5	3	4	3	3	5	8	9	12	10	8	78
City of Vallejo	82	1	1	1	1	1	1	1	1	2	2	1	1	13
Delta Uplands Diversions														
Old River	76	5	0	0	0	0	7	20	18	24	27	26	14	141
Tom Paine Slough	76	1	0	0	1	0	2	3	4	4	5	4	2	26
San Joaquin River (Stockton to Vernalis)	77	3	0	0	0	1	8	13	11	13	15	11	7	86
French Camp Slough below French Camp	76	0	0	0	0	0	0	0	0	0	1	1	0	4
Calaveras River below Stockton	78	0	0	0	0	0	0	0	0	0	0	0	0	0
Mokelumne River below Woodbridge	78	0	0	0	0	0	0	1	2	2	2	2	1	10
Cosumnes River below McConnell	78	0	0	0	0	0	0	0	1	1	1	1	0	5
Sacramento River below Sacramento	78	0	0	0	0	0	0	0	0	1	1	0	0	2
Yolo Bypass (West Cut)	67	3	1	1	0	0	0	0	2	9	13	0	5	31
Putah Creek below Davis	78	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	79	12	1	0	0	0	1	10	18	17	19	16	14	107
Total Water Utilization		228	87	41	47	78	191	354	434	476	597	555	411	3499

a Water supply from precipitation has been computed using weighted monthly mean rainfall and the acreage of the Delta Service Area.
b Consumptive use in the Delta Lowlands has been computed using monthly unit consumptive use factors for reclaimed vegetation and evaporation, and acreage data obtained through the land use surveys of 1952 and 1955.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
ANTELOPE CREEK NEAR RED BLUFF																
40 12 10	122 07 05			12.1	12/1/60	11500	12.43	2/22/56			OCT 40-DATE	OCT 40-DATE				
Station located 1.8 mi. above diversion dam of Los Molinos Mutual Water Co., 6.5 mi. E of Red Bluff. Tributary to Sacramento River. Small diversion above station during Oct. to June each year. Records furn. by USGS. Drainage area is 124 sq. mi. (s)																
ASH CREEK AT ADIN																
41 11 54	120 56 30	SW21 39N 9E	466	7.57	12/1/60				25190	38220	37-SEP 57 δ SEP 57-DATE	37-SEP 57 δ SEP 57-DATE	δ1957		0.00	LOCAL
Station located 200 ft. above U. S. Highway 299 Bridge. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																
BATTLE CREEK NEAR COTTONWOOD																
40 23 50	123 08 05	NW 6 29N 2W		11.9	12/1/60	12800	11.85	2/6/42			OCT 40-DATE	OCT 40-DATE	1940		421.47	USCGS
Station located 6.3 mi. above mouth, 7.6 mi. E of Cottonwood. Tributary to Sacramento River. From 50 c.f.s. to 90 c.f.s. bypasses station through Coleman Fish Hatchery. Flow regulated by small powerplants and reservoirs above station. Records furn. by USGS. Drainage area is 362 sq. mi. (s)																
BEAR CREEK NEAR MILLVILLE																
40 31 48	122 06 34	NE20 31N 2W	2910E	10.18	12/1/60	2910E	10.18	12/1/60	57820	44430	OCT 59-DATE	AUG 59-DATE	1959		0.00	LOCAL
Station located below State Highway 44 bridge, 3.7 mi. E of Millville. Tributary to Sacramento River. Recorder installed Aug. 14, 1959. (f)																
BIG CHICO CREEK AT CHICO																
39 43 38	121 51 43	SE28 22N 1E	695	7.33	12/1/60				32310	35770	JAN 56-DATE	JAN 56-DATE	1956		167.88	USED
Station located 50 ft. above Rose Avenue Highway Bridge, immediately W of Chico. Tributary to Sacramento River. For total flow of Big Chico Creek near Mouth, combine with flow of Lindo Channel near Chico. (f)																
BIG CHICO CREEK NEAR CHICO																
39 46 35	121 45 10			7.2	1/31/61	8260	16.6	12/10/37			MAY 30-DATE	MAY 30-DATE				
Station located 1.8 mi. above golf clubhouse in Bidwell Park, 7 mi. NE of Chico. Tributary to Sacramento River. Records furn. by USGS. Drainage area is 67.9 sq. mi. (s)																
BIG SAGE RESERVOIR NEAR ALTURAS																
41 34 42	120 37 33	SE 7 43N 12E		14.30	4/3/61		24.40	2/27/58			OCT 57-DATE	1957			0.00	LOCAL
Station located at reservoir control structure, 150 ft. N of Big Sage Dam, 8 mi. NW of Alturas. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
BURNEY CREEK NEAR BURNEY																
40 52 18	121 40 58	SW19 35N 3E	427	9.27	1/31/61	592E	9.75	1/12/59	35230	29720	APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL
Station located 300 ft. above county road bridge, 0.8 mi. SW of Burney. Tributary to Pit River. Stage-discharge relationship at times affected by ice. Flow affected by upstream diversion. Drainage area is 87.7 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.&R. M.O.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
BUTTE CREEK NEAR ADIN																
41 07 12	120 52 36	NE24 38N 9E	9.3	3.50	12/1/60	117E	5.55	2/24/58	526	960	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 6.4 mi. SE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																
BUTTE CREEK NEAR CHICO																
39 43 34	121 42 28	NW36 22N 2E		5.1	1/31/61	1870D	13.35	12/22/55			NOV 30-DATE	NOV 30-DATE				
Station located 0.7 mi. below Little Butte Creek, 7.5 mi. E of Chico. Flow slightly regulated by storage in Magalia Reservoir. Considerable importations above station from West Branch Feather River via powerplants. Records furn. by USGS. Drainage area is 148 sq. mi. (s)																
BUTTE CREEK NEAR DURHAM																
39 40 37	121 46 38	NW17 21N 2E	3600	7.30	1/31/61	5100	8.65	2/8/60	169000	166400	JAN 58-DATE	JAN 58-DATE	1958		181.01	USED
Station located 0.1 mi. below Ord-Chico Highway bridge, 2.6 mi. NE of Durham. Tributary to Butte Slough. (f)																
BUTTE SLOUGH AT MAWSON BRIDGE																
39 11 14	121 54 28	SW31 16N 1E	10200	53.93	2/4/61		68.9	3/1/40	406200	388600	JAN 39-DATE	NOV 34-MAY 37# OCT 37-DATE	1934		0.00	USED
Station located at West Butt-Meridian Highway bridge, 3.0 mi. N of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City by bank spill and spill over Moulton and Colusa weirs. (fs)																
BUTTE SLOUGH AT OUTFALL GATES																
39 11 44	121 56 04	NE35 16N 1W							193100	226100	JUN 24-OCT 38δ JAN 39-DATE	JUN 24-DATE			0.00	USED
Station located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Tributary to Sacramento River. Flow regulated by gravity culverts. These flows, together with flow of Butte Slough at Mawson Bridge and Wadsworth Canal near Sutter are, during the summer months, made up almost entirely of return water from lands irrigated by Feather River diversions. (fs)																
CHEROKEE CANAL NEAR RICHVALE																
39 27 53	121 44 37	NW34 19N 2E				5600E	9.48	2/9/61			JUL 60-DATE	JUL 60-DATE	1960		88.20	USCGS
Station located on Butte City Road Bridge, 2.1 mi. S of Richvale. Backwater from Cherokee Dam weir, 1.05 mi. below station, at times affects the stage-discharge relationship. Weir has 13 bays and is operated by the Richvale Irrigation District.																
CLEAR CREEK NEAR IGO																
40 30 50	122 31 20	NE27 31N 6W		7.6	1/31/61	24500	13.75	12/21/55			OCT 40-DATE	OCT 40-DATE				
Station located at highway bridge on Redding-Igo road, 1.0 mi. NE of Igo, 8 mi. SW of Redding. Tributary to Sacramento River. Records furn. by USGS. Drainage area is 228 sq. mi. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
COLUSA BASIN DRAIN NEAR COLLEGE CITY																
39 00 38	121 58 38	NE 4 13N 1W		32.2	2/3/61						OCT 44-APR 52 MAR 54-FEB 58	OCT 44-APR 52 MAR 54-FEB 58 JUN 58-DATE	1957	1957	-0.34 0.00	USED USED
Station located 0.1 mi. below highway bridge, 1.7 mi. E of College City. Flow is drainage chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Backwater from Knights Landing Outfall Gates at times affects stage-dischsrge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. Results of measurements listed in supplementary table in report. (s)																
COLUSA BASIN DRAIN AT HIGHWAY 20																
39 11 44	122 03 34	NE34 16N 2W	2530	47.66	2/3/61	25400E	51.93	2/21/58	460000	417700	JUN 24-DEC 408 MAY 41-DATE	JUN 24-DEC 408 MAY 41-DATE	1957	1957	37.09 0.00	USED USED
Station located at State Highway 20 bridge, 3.0 mi. W of Colusa. Flow is return water in main drain of Reclamation District 2047, chiefly drainage from irrigation districts. (fs)																
COLUSA BASIN DRAIN AT KNIGHTS LANDING																
38 47 58	121 43 27	SW14 11N 2E					36.8	2/10/42			MAY 24-OCT 398 JAN 40-DATE	MAY 24-OCT 398 JAN 40-DATE	1924		0.00	USED
Station located at Knights Landing Outfall Gates, 0.3 mi. W of Knights Landing. Tributary to Sacramento River. Flow regulated by outfall gates. An undetermined amount of flow is diverted to Yolo Bypass via Ridge Cut at Knights Landing. For total flow to Sacramento, combine with flows of Reclamation District 787 to Colusa Basin Drain. Maximum gage height listed does not indicate maximum discharge. (fs)																
COLUSA WEIR SPILL TO BUTTE BASIN																
39 14 12	121 59 38	SE17 16N 1W	22800	65.19	12/3/60		70.6	3/1/40	125600	213400	JAN 40-DATE#	JAN 35-DATE#	1935		0.00	USED
Station located at N end of weir, 2.0 mi. N of Colusa. Elev. of weir crest is 61.80 ft. U.S.E.D. datum; length of crest is 1,650 ft. (f)																
COTTONWOOD CREEK NEAR COTTONWOOD																
40 23 10	122 14 15	NE 7 29N 3W		10.8	1/31/61	52300	15.4	3/1/41			OCT 40-DATE	SEP 40-DATE				
Station located 2 mi. E of Cottonwood, 2.4 mi. above mouth. Tributary to Sacramento River. At times during irrigation season, Cottonwood Creek receives water above station from Sacramento River by way of Anderson-Cottonwood Canal. Records furn. by U.S.G.S. Drainage area is 945 sq. mi. (s)																
DEER CREEK NEAR VINA																
40 00 50	121 56 50	NE23 25N 1W		8.4	12/1/60	23800	19.2	12/10/37			OCT 11-DEC 15 MAR 20-DEC 37 JAN 39-DATE	OCT 11-DEC 15 MAR 20-DEC 37 JAN 39-DATE				
Station located 0.5 mi. above concrete diversion dam, 7.9 mi. NE of Vina. Tributary to Sacramento River Records furn. by U.S.G.S. Drainage area is 200 sq. mi. (s)																
DRY FORK SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD																
40 19 00	122 27 37	SW32 29N 5W	3720	9.18	2/2/61	14100E	10.19	4/5/58			MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located at highway bridge, 10.7 mi SW of Cottonwood. Tributary to Sacramento River via So. Fork Cottonwood and Cottonwood Creek. Drainage area is 151 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	I/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC.-FT.	CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
FALL RIVER NEAR DANA																
41 06 19	121 33 00	NE30 38N 4E	669	6.75	2/11/61	2190E	10.25	2/25/58	314600	325500	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located at private bridge, 0.7 mi. SE of Dana. (f)																
ORINDSTONE CREEK NEAR ELK CREEK																
39 41	122 32	SW15 21N 6W	1770 E	3.85	1/31/61				66790		AUG 52-OCT 55 OCT 59-DATE	AUG 52-MAR 57 AUG 59-DATE				
Station located at Chrome Road bridge, 5.1 mi. N of Elk Creek. Tributary to Sacramento River via Stony Creek. Recorder installed Aug. 6, 1959. (f)																
HAT CREEK NEAR CASSEL																
40 58 40	121 33 21	SE18 36N 4E	858	4.17	12/1/60	858	4.17	12/1/60	363000	371500	OCT 58-DATE	SEP 58-DATE	1958		0.00	LOCAL
Station located 400 ft. below U. S. Highway 299W bridge, 9.1 mi. NE of Burney, 4 mi. N of Cassel. Tributary to Sacramento River. Flow regulated by Pacific Gas and Electric Company power plants. (f)																
HORSE CREEK AT LITTLE VALLEY																
40 53 56	121 10 23	NE15 35N 7E	70	2.46	12/1/60	513E	3.51	2/8/60	6598	9002	OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located 300 ft. below Western Pacific Railroad bridge, 0.5 mi. NE of Little Valley. Tributary to Pit River. Recorder installed Sep. 30, 1959 (f)																
LASSEN CREEK NEAR WILLOW RANCH																
41 53 02	120 20 27	SE27 47N 14E				7.0	1.87	6/21/61			JUN 61-DATE	JUN 61-DATE	1961		0.00	LOCAL
Station located at U. S. Highway 395 culvert, approx. 2 mi. SE of Willow Ranch. Tributary to Goose Lake. Stage discharge relationship at times affected by ice. (f)																
LINDO CHANNEL NEAR CHICO																
39 43 21	121 54 41	NW31 22N 1E	1220	13.95	1/31/61				14220	18890	JAN 56-DATE	JAN 56-DATE	1956		128.42	USED
Station located 100ft. below Grape Way bridge, 4.0 mi. W of Chico. Tributary to Sacramento River via Big Chico Creek. For total flow of Big Chico Creek near Mouth, combine with flow of Big Chico Creek at Chico. (f)																
LITTLE CHICO CREEK NEAR CHICO																
39 44 01	121 46 16	NE29 22N 2E	877	4.42	1/31/61	948	4.38	2/16/59	10070		JAN 59-DATE	DEC 58-DATE	1958		296.00	USED
Station located above diversion dam 500 ft. S of Stilson Rd., 3.6 mi. E of Chico. Tributary to Sacramento River. During periods of high water, flow is diverted via Little Chico Creek Diversion, into Butte Creek. Discharge listed does not include this diversion. Revised 1959 data also included. (f)																
LITTLE CHICO CREEK DIVERSION NEAR CHICO																
			168	4.41	1/31/61	356E	4.88	2/16/59	207	51	JAN 59-DATE					
See Little Chico Creek near Chico for records of stage and location. This is flow diverted from Little Chico Creek, during periods of high water, into Butte Creek. (f)																

E - Estimated
(a) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC-FT.	CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
LITTLE COW CREEK NEAR INGOT																
40 44 44	122 03 37	NW 2 33N 2W	5140E	14.81	12/1/60	8200E	16.64	11/13/57	99600	81560	MAR 57-DATE	MAR 57-DATE	1957		0.00	LOCAL
Station located 1.8 mi. NE of Ingot, 7 mi. SW of Round Mountain. Tributary to Sacramento River via Cow Creek. Drainage area is 60.4 sq. mi. (f)																
MILL CREEK NEAR LOS MOLINOS																
40 03 17	122 01 23	NW 6 25N 1W		8.6	1/31/61	23000	23.4	12/11/37			OCT 28-DATE	OCT 28-DATE				
Station located 5.5 mi. above mouth, 4.5 mi. NE of Los Molinos. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 134 sq. mi. (s)																
MILL CREEK NEAR MOUTH																
40 02 35	122 06 05	NW 9 25N 2W		10.9	1/31/61						MAY 47-DEC 48 APR 49-DEC 57	MAY 47-DEC 48 APR 49-DATE			224.31	USED
Station located approx. 0.1 mi. below U. S. Highway 99E bridge, 1.5 mi. N of Los Molinos. Tributary to Sacramento River. Flow affected by upstream regulation and diversion. Results of measurements listed in supplementary table in report. (s)																
MOULTON WEIR SPILL TO BUTTE BASIN																
39 20 18	122 01 18	SE12 17N 2W	186	77.08	12/2/60		83.8	2/7/42	60	13400	JAN 40-DATE#	JAN 35-DATE#	1935		0.00	USED
Station located west of south end of weir, 4.6 mi. S of Princeton. Elevation of weir crest is 76.75 ft. U.S.E.D. datum; length of crest is 500 ft. (f)																
NORTH FORK COTTONWOOD CREEK NEAR IGO																
40 26 32	122 32 57	NW21 30N 6W	7220	36.38	1/31/61	8670	35.70	2/8/60	83870	96750	NOV 56-DATE	NOV 56-DATE	1956		30.60	LOCAL
Station located at county road bridge, 4.4 mi. S of Igo, 4.4 mi. SE of Ono. Tributary to Sacramento River via Cottonwood Creek. Drainage area is 88.7 sq. mi. (f)																
NORTH FORK DAVIS CREEK NEAR DAVIS CREEK																
41 44 17	120 20 19	SE27 45N 14E				5.9	1.86	6/23/61			JUN 61-DATE	JUN 61-DATE	1961		0.00	LOCAL
Station located approx. 2.1 mi. E of Davis Creek. Tributary to Goose Lake via Davis Creek. Stage-discharge relationship at times affected by ice. (f)																
NORTH FORK MILL CREEK NEAR LOS MOLINOS																
40 03 05	122 05 11	NE 4 25N 2W	52E	3.74	12/1/60	52E	3.74	12/1/60			APR 59-DATE	APR 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. E of Shasta Ave. bridge, 2.1 mi. N of Los Molinos. This is regulated diversion from Mill Creek to Sacramento River. (f)																
PINE CREEK NEAR ALTURAS																
41 25 59	120 26 32	SW35 42N 13E	56	0.95	2/14/61	109	1.46	5/21/58	9556	10470	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located approx. 0.1 mi. N of road, 6.1 mi. SE of Alturas. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																

E - Estimated
(s) - Record of stage published
ð - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC.-FT.	CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
PIT RIVER BELOW ALTURAS																
41 28 54	120 38 25	NE13 42N 11E	400	6.06	2/3/61	2190E	13.40	2/25/58		74720	OCT 57-DATE	OCT 5 -DATE	1957		0.00	LOCAL
Station located at county road bridge, 5 mi. W of Alturas. Stage-discharge relationship at times affected by temporary diversion dam approx. 3 mi. below station and also by ice. During periods of backwater affect by dam, flow listed is not considered to have the same degree of accuracy as other records published in this report. Flow is regulated by many small reservoirs. (f)																
RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER																
39 04 08	121 51 43	NE16 14N 1E							21560	17100	MAY 24-OCT 38δ JAN 39-DATE					
Plant located 1.7 mi. E of Grimes. This is drainage returned by pumping and gravity. Plant also discharges to irrigation canals. (f)																
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER																
38 51 45	121 47 29	NE30 12N 2E							122200	111400	APR 24-OCT 38δ JAN 39-DATE					
Plant located 4.5 mi. E of Robbins. This is drainage returned by pumping. Pumping hours vary and figures shown are not necessarily daily flows. See Sacramento River near Rough and Ready Bend for stages in river Additional water is sometimes returned to Colusa Basin Drain. (f)																
RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN																
38 48 03	121 43 28	NW14 11N 2E							1181	4412	JAN 40-DATE					
Plant located 0.3 mi. W of Knights Landing. This is drainage returned by pumping between Knights Landing Outfall Gates and Sacramento River. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional water returned to Sacramento River. (f)																
RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER																
38 50 47	121 43 46	NE34 12N2E							15830	12620	MAY 49-DATE					
Plant located 2.1 mi. SW of Robbins. This is drainage returned by pumping. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional water returned to Colusa Basin Drain. (f)																
RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH																
38 47 05	121 39 18	NE20 11N 3E					41.1	3/1/40	172000	170600	APR 30-OCT 38δ JAN 39-DATE					
Plant located on west levee of Sutter Bypass, 3.7 mi. SE of Knights Landing. This is drainage returned by pumping and gravity. (f)																
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS																
39 01 57	121 44 33	NW27 14N 2E							5191	2611	MAY 54-DATE				0.00	USED
Plant located 9.9 mi. SW of Yuba City, 8.5 mi. E of Grimes. This is drainage returned by gravity. (f)																
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS																
39 01 44	121 46 53	SE30 14N 2E							21480	21030	JAN 25-DATE					
Plant located on north levee of Tisdale Bypass, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. This is drainage returned by pumping and gravity. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
RED BANK CREEK NEAR RED BLUFF																
40 05 23	122 24 45	SE22 26N 5W	1950	7.38	2/2/61	5610		2/21/56	14560	16160	FEB 48-JUL 498 APR 50-APR 56 NOV 56-DATE	FEB 48-JUL 498 APR 50-APR 56 NOV 56-DATE	1956		0.00	LOCAL
Station located at Red Bank Road bridge, 11 mi. SW of Red Bluff. (f)																
RUSH CREEK NEAR ADIN																
41 15 47	120 53 31	NW36 40N 9E	47	2.98	12/1/60	752E	5.74	2/24/58	4001	7582	NOV 57-DATE	NOV 57-DATE	1957		4365.27	USCOS
Station located at U. S. Highway 299 bridge, 5.4 mi. NE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times effected by ice. (f)																
SACRAMENTO RIVER AT BUTTE CITY																
39 27 35	121 59 35	NE32 19N 1W		88.3	12/2/60	170000	96.87	2/7/42			JUL 19-OCT 388 JAN 39-DATE	JUL 19-OCT 288 APR 29-DATE	1921		0.00	USED
Station located at Highway bridge, 0.5 mi. S of Butte City. Maximum discharge of record listed is for period 1940 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES																
39 11 42	121 56 08	NE35 16N 1W										36-DATE	1936		0.00	USED
Staff located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Gage read daily by Butte Slough Irrigation Company, Ltd. (s)																
SACRAMENTO RIVER AT COLUSA																
39 12 50	121 59 55	NW29 16N 1W		63.2	12/3/60	49000	69.20	2/8/42			APR 20-OCT 388 JAN 39-DATE	APR 19-DATE	1921 1921		0.00 -3.0	USED USCOS
Station located just below highway bridge at Colusa. Maximum discharge of record listed is for period 1938 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT COLUSA WEIR																
See Colusa Weir Spill to Butte Basin. Gage heights below weir crest (61.80 ft.) are not tabulated. (s)																
SACRAMENTO RIVER AT HAMILTON CITY																
39 45 07	121 59 43	NE20 22N 1W	92900	43.30	12/2/60	350000E	22.6	2/28/40	7238000	6179000	APR 45-DATE	27-DATE	1927 1945 1945	1945	127.9 100.00 96.5	USED USED USCOS
Station located at Gianella Bridge, State Highway 32, 1.0 mi. NE of Hamilton City. Recorder, washed out by high water Jan. 9, 1959, was reinstalled Oct. 27, 1959. Records from October 1 to 26 are based on two or more daily staff gage readings and should not be considered to have the same degree of accuracy as other records published in this report. (rs)																
SACRAMENTO RIVER AT KESWICK																
40 36 10	122 26 35	NW28 32N 5W		15.7	2/15/61	186000	47.2	2/28/40			OCT 38-DATE	OCT 38-DATE	1938 1939 1942	1939 1942	500.01 495.01 479.81	USCOS USCOS USCOS
Station located 0.6 mi. below Keswick Dam, 1.5 mi. below Keswick. Flow regulated by Shasta Lake. Records furn. by U.S.G.S. Drainage area, excluding Goose Lake basin, is approx. 6,710 sq. mi. (s)																
SACRAMENTO RIVER AT KNIGHTS LANDING																
38 48 10	121 42 55	NE14 11N 2E				29600	41.83	2/22/58			JUL 19-OCT 388 JAN 39-DATE	JUL 19-DATE	1921		0.00 -3.02	USED USCOS
Station located just above the Southern Pacific Railroad bridge, 13.1 mi. above Feather River immediately NE of Knights Landing. Station effected by backwater from Feather River and Sutter Bypass during periods of high flow. Maximum discharge of record listed is for period 1940 to date. Records furn. by U.S.G.S. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAOING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
SACRAMENTO RIVER AT MERIDIAN																
39 08 42	121 55 00	SE13 15N 1W		57.0	12/3/60		64.4	3/1/40			MAR 54-OCT 54 JAN 55-DEC 55 MAR 56-DATE δ	15-DATE			0.00	USED
Station located 190 ft. below Meridian Bridge, State Highway 20, immediately NW of Meridian. Flow computed for irrigation season only. (fs)																
SACRAMENTO RIVER AT MOULTON WEIR																
See Moulton Weir Spill to Butte Basin. Gage heights below weir crest (76.80 ft.) are not tabulated. (a)																
SACRAMENTO RIVER OPPOSITE MOULTON WEIR																
39 20 13	122 01 50	SW12 17N 2W		76.90	12/3/60		85.5	2/7/42			MAR 54-DATE δ	OCT 22-MAY 40# JUL 40-JUL 41 NOV 41-JUL 43# OCT 43-DATE			0.00	USED
Station located immediately W of weir, 4.8 mi. S of Princeton. Flow computed for irrigation season only. (fs)																
SACRAMENTO RIVER NEAR MOUNT SHASTA																
41 16 00	122 18 38	SE33 40N 4W	3380E	6.94	2/11/61	3380E	6.94	2/11/61	185900	142100	APR 59-DATE	APR 59-DATE	1959			LOCAL
Station located 1.5 mi. SW of junction of State Highway 89 and U. S. Highway 99, 3 mi. S of Mount Shasta. (f)																
SACRAMENTO RIVER AT ORD FERRY																
39 37 39	121 59 28	SE32 21N 1W	85500E	62.55	12/2/60	370000	121.7	2/28/40	7526000	5432000	JAN 48-DATE	21-MAY 27# FEB 37-MAY 37 OCT 37-MAY 39 NOV 39-MAY 41# NOV 41-DATE	1937 1960	1960	0.00 50.00	USED USED
Station located 0.1 mi. below Ord Ferry. Records of flow in excess of 70,000 c.f.s. are based on extension of rating curve and correlation with adjacent gaging stations because of inability to measure flow above this figure. (fs)																
SACRAMENTO RIVER AT RECLAMATION DISTRICT 70 PUMPING PLANT																
39 04 08	121 51 43	NE16 14N 1E										25-DATE			0.00	USED
Staff located at district pumping plant, 1.7 mi. E of Grimes. Gage read daily by pump operators. (s)																
SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 PUMPING PLANT																
38 52 58	121 48 59	SW13 12N 1E									MAR 55-DATE δ	FEB 55-DEC 55 FEB 56-MAY 59 NOV 59-DATE				
Station located below Tyndall Landing, 2.5 mi. NW of district drainage pumping plant, 6.2 mi. W of Robbins. Flow computed for irrigation season only, should not be considered to have the same degree of accuracy as other records published in this report. (f)																
SACRAMENTO RIVER AT RED BLUFF																
40 10 43	122 13 45	SW20 27N 3W		21.2	12/1/60		32.2	2/28/40				1878-DATE	1957	1957	236.89 236.60	USCGS USCGS
Station located at E end of U. S. Highway 99E bridge, immediately E of Red Bluff. Results of measurements listed in supplementary table in report. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation seaason only
(f) - Record of flow published
- Flood season only

OAGINO STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC.-FT.	CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SACRAMENTO RIVER NEAR RED BLUFF																
40 13 55	122 10 50	SE34 28N 3W		18.5	12/1/60	291000	38.9	2/28/40			JAN 92-DATE	JAN 92-DATE	1902		253.18	USCOS
Station located at lower end of Iron Canyon, 0.5 mi. below Sevenmile Creek, 4.6 mi. NE of Red Bluff. Records prior to January 1902 at a site 1.2 mi. upstream. Records furn. by U.S.G.S. Drainage area, excluding Goose Lake basin, is approx. 9,300 sq. mi. (s)																
SACRAMENTO RIVER NEAR ROUGH AND READY BEND																
38 51 45	121 47 29	NE30 12N 2E										MAR 37-DATE	1937		0.00	USED
Staff located at Reclamation District 108 drainage pumping plant, 4.5 mi. E of Robbins. Gage read twice daily during periods of pump operation and daily when pumps not in operation by pump operators. (s)																
SACRAMENTO RIVER AT TISDALE WEIR																
See Tisdale Weir Spill to Sutter Bypass. Gage heights below weir crest (45.45 ft.) are not tabulated. (s)																
SACRAMENTO RIVER AT VINA BRIDGE																
39 54 34	122 05 31	NE28 24N 2W	99200	84.24	12/1/60	147000	89.42	2/25/58	8132000	7030000	APR 45-DATE	APR 45-DATE	1945 1945		100.00 97.15	USED USCOS
Station located 250 ft. above Vina-Corning Highway bridge, 2.6 mi. SW of Vina. (fs)																
SACRAMENTO RIVER BELOW WILKINS SLOUGH																
39 00 35	121 49 25	NE 2 13N 1E		47.4	2/4/61	28900	51.41	2/27/58			APR 31-OCT 38ϑ JAN 39-DATE	AUG 31-DATE	1931		0.00	USED
Station located 0.3 mi. below Wilkins Slough pumping plant of Reclamation District 108, 1.3 mi. below Tisdale Weir, 6 mi. SE of Grimes. Maximum discharge of record listed is for period 1938 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO SLOUGH AT SACRAMENTO RIVER																
38 46 52	121 38 27	SE21 11N 3E		36.1	2/9/60						JUN 24-OCT 39ϑ JAN 40-DATE	APR 45-DEC 46ϑ APR 47-DATE				
Station located 0.5 mi. above mouth, 4.6 mi. SE of Knights Landing. During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows (above gage ht. 29.0±) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow. (f)																
SALT CREEK NEAR BELLA VISTA																
40 39 40	122 11 41	NW 3 32N 3W	2310E	6.13	12/1/60	2310E	6.13	12/1/60	15117	14536	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located at U. S. Highway 299 bridge, 2.8 mi. NE of Bella Vista. Tributary to Sacramento River via Little Cow Creek and Cow Creek. (f)																

E - Estimated
(s) - Record of stage published
ϑ - Irrigation season only
(f) - Record of flow published
- Flood season only

TABLE 16

OAGINO STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SHASTA LAKE																
40 43 10	122 25 10	NW15 33N 5W							5073010	5216120	NOV 42-DATE	NOV 42-DATE	1942		0.00	USCOS
Station located in Shasta Dam 2 mi. below Squaw Creek, 9.5 mi. N of Redding. Usable capacity, 4,377,000 ac.-ft. between elevations 737.75 and 1,065.0 ft. above mean sea level. Not available for release, 115,700 ac.-ft. Inflow to Shasta Lake takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the dam site if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Records furn. by U.S.B.R. Drainage area, excluding Goose Lake Basin, is 6,665 sq. mi.															
SOUTH FORK BATTLE CREEK NEAR MINERAL																
40 21 10	121 39 50	NW28 29N 3E	731	5.89	1/31/61	948E	6.08	2/8/60			OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located at old State Highway 36 bridge, 3.7 mi. W of Mineral. Tributary to Sacramento River via Battle Creek. Stage-discharge relationship at times affected by ice. Drainage area is 33.0 sq. mi. Recorder installed Sept. 4, 1959. (f)																
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD																
40 18 52	122 26 54	NE 5 28N 5W	3510	5.75	1/31/61	12700E	8.27	2/8/60	79470		APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL
Station located 70 ft. above highway bridge, 11 mi. SW of Cottonwood. Tributary to Sacramento River via Cottonwood Creek. Drainage area is 218 sq. mi. (f)																
SOUTH FORK PIT RIVER NEAR JESS VALLEY																
41 13 50	120 21 58	NE 9 39N 14E	138	3.51	5/6/61	588	5.17	5/12/58	18320	20570	OCT 57-DATE	OCT 57-DATE	1957		0.00	LOCAL
Station located 2.5 mi. E of West Valley Reservoir control structure, W of Jess Valley, 7.3 mi. E of Likely. Stage-discharge relationship at times affected by ice. Flow listed does not include diversion 50 ft. below station to West Valley Reservoir and is not considered to have the same degree of accuracy as other records published in this report. (f)																
SPRING CREEK NEAR KESWICK																
40 37 47	122 28 15	SE18 32N 5W				1210E	1.88	1/31/61			NOV 60-JUL 61				0.00	LOCAL
Station located at upstream end of culvert on Iron Mtn. Rd., 0.8 mi. N of Keswick. Tributary to Sacramento River. (f)																
STONE CORRAL CREEK NEAR SITES																
39 17 18	122 18 00	NW34 17N 4W	272	7.27	2/2/61	2500E	14.93	4/2/58	579	346	MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located at Maxwell-Sites Highway bridge, 2.5 mi. SE of Sites, 6 mi. NW of Maxwell. Tributary to Coluaa Basin Drain. (f)																
STONY CREEK NEAR HAMILTON CITY																
39 43 25	122 02 47			10.6	2/2/61	39900	18.31	2/25/58			OCT 40-DATE	OCT 40-DATE	1941 1944	1944 1946	188.11 186.61	USED USED
Station located 2.3 mi. SW of Hamilton City, 6 mi. above mouth. Tributary to Sacramento River. Flow regulated by East Park Reservoir and Stony Gorge Reservoir. Flow to Sacramento River is cut off during irrigation season by an earth fill installed by Glenn-Colusa Irrigation District to transport water from their main canal across Stony Creek. Records furn. by U.S.O.S. Drainage area is 764 sq. mi. (s)																

E - Estimated
(s) - Record of atage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

OAOINO STATION DESCRIPTION
CENTRAL VALLEY REOION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.,B R. M.O.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
STONY CREEK AT ST. JOHN																
39 42 35	122 00 07			3.0	2/9/61		13.9	2/28/40				06-DATE			136.9 134.10	USED USCOS
Staff located at State Highway 45 bridge, 2 mi. S of Hamilton City. Records furn. by U.S.W.B. Gage read daily. (s)																
SUTTER BYPASS AT LONO BRIDOE																
39 08 46	121 50 31	SE15 15N 1E		45.9	2/4/61		57.7	3/1/40				14-DATE			0.00	USED
Station located on west levee, 0.2 mi. N of State Highway 20, 3.9 mi. E of Meridian. Gage heights below 39.0 ft. are not indicative of flow in channel and have not been listed. (s)																
SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPINO PLANT																
Station located on west levee, 3.7 mi. SE of Knights Landing. (s)												15-DATE			0.00	USED
SUTTER BYPASS AT STATE PUMPINO PLANT 1																
38 55 59	121 38 03	NE33 13N 3E										20-DATE			0.00	USED
Staff located on east levee, 3 mi. N of Nelson Slough, 3.6 mi. NW of Nicolaus. Gage read twice daily by pump operators. (s)																
SUTTER BYPASS AT STATE PUMPINO PLANT 2																
39 01 34	121 43 32	SW26 14N 2E										20-DATE			0.00	USED
Staff located on east levee at O'Banion Road, 9.8 mi. SW of Yuba City. Gage read twice daily by pump operators. (s)																
SUTTER BYPASS AT STATE PUMPINO PLANT 3																
39 07 15	121 46 40	SW29 15N 2E										20-DATE	1920		0.00	USED
Staff located on east levee, 0.7 mi. above Wadsworth Canal, 3.0 mi. SW of Sutter. Gage read twice daily by pump operators. (s)																
THOMES CREEK AT PASKENTA																
39 52 55	122 33 05	NW 4 23N 6W		8.4	1/31/61	23500	12.14	12/21/55			OCT 20-DATE	OCT 20-DATE				
Station located 0.3 mi. above highway bridge at Paskenta. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 188 sq. mi. (s)																
TISDALE BYPASS AT RECLAMATION DISTRICT 1660 PUMPINO PLANT																
39 01 44	121 46 53	SE30 14N 2E									JAN 25-DATE				0.00	USED
Staff located on north levee at district drainage pumping plant, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. Gage read twice daily by pump operators. (s)																

E - Estimated
(s) - Record of stage published
ð - Irrigation season only
(f) - Record of flow published
- Flood season only

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
NORTHERN BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
TISDALE WEIR SPILL TO SUTTER BYPASS																
39 01 36	121 49 16	NE35 14N 1E	8360	47.92	12/3/60 2/4/61	25700	53.3	3/1/40	160800	125400	JAN 40-DATE#	JAN 35-DATE#	1935		0.00	USED
Station located W of north end of weir, 5.0 mi. SE of Orimes. See Sacramento River at Tisdale Weir for stage records. Elevation of weir crest is 45.45 ft. U.S.E.D. datum; length of crest is 1,155 ft. Backwater from Sutter Bypass at times affects stage-discharge relationship. Maximum gage height listed does not necessarily inidicate maximum discharge. (f)																
TURNER CREEK NEAR CANBY																
41 25 53	121 00 34	SE35 42N 8E	226	6.10	1/31/61	1330E	8.45	3/7/60	4741		MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located 1.4 mi. above mouth, 7.3 mi. W of Canby. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																
WADSWORTH CANAL AT BUTTE HOUSE ROAD																
39 10 01	121 43 39	NE10 15N 2E					54.75	2/8/42	59310		JAN 39-MAR 61	SEP 29-MAR 61			0.00	USED
Station located at bridge, 1.2 mi. E of Sutter. Tributary to Sutter Bypass. Backwater from Sutter Bypass at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. This station was replaced on Mar. 10, 1961, by the two stations, Wadsworth Canal near Sutter (Upper and Lower) and is under the title Wadsworth Canal near Sutter in this report and all subsequent reports. (fs)																
WADSWORTH CANAL NEAR SUTTER (LOWER STATION)																
39 07 42	121 45 14	SW21 15N 2E														
Station located on downstream side of Franklin Road Bridge, 2.0 mi. S of Sutter. Tributary to Sutter Bypass. This station is used to determine slope for slope rating of Wadsworth Canal Near Sutter (Upper).																
WADSWORTH CANAL NEAR SUTTER (UPPER STATION)																
39 09 12	121 44 00	NE15 15N 2E														
Station located on downstream side of South Butte Road Bridge, 0.9 mi. E of Sutter. Tributary to Sutter Bypass. Maximum gage height listed does not necessarily indicate maximum discharge. This station and one 2.2 mi. downstream (Wadsworth Canal Near Sutter (Lower Station)) were installed to replace the station Wadsworth Canal at Butte House Road.																
WEST VALLEY RESERVOIR NEAR LIKELY																
41 13 20	120 24 44	NW19 39N 14E										DEC 57-DATE	1957		4743.59	USCOS
Staff located at reservoir control structure, 150ft. S of west end of dam, 5.0 mi. E of Likely. Elevation of base of spillway is at 18.66 ft. Gage installed Dec. 11, 1957. (s)																
WILLOW CREEK NEAR ADIN																
41 05 04	120 54 09	SE35 38N 9E	12	1.05	12/1/60				3763	4758	29-SEP 57@ SEP 57-DATE	29-SEP 57@ SEP 57-DATE	1957		0.00	LOCAL
Station located W of Adin-Susanville Highway, 8.2 mi. SE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																
WILLOW CREEK NEAR WILLOW RANCH																
41 53 23	120 18 57	NE26 44N 14E				2.1	0.51	6/17/61			JUN 61-DATE	JUN 61-DATE			0.00	LOCAL
Station located approx. 2.4 mi. SE of Willow Ranch. Tributary to Goose Lake. Stage-discharge relationship at times affected by ice. (f)																

E - Estimated
(s) - Record of stage published
@ - Irrigation season only
# - Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
AMERICAN RIVER AT FAIR OAKS																
38 38 08	121 13 36	NE17 9N 7E	4720	3.83	7/19/61	180000	31.85	11/21/50			NOV 04-DATE	NOV 04-DATE	1904 1930 1957	1930 1957	65.79 64.79 77.53	USCGS USCGS USCGS
Station located 2,100 ft. below Nimbus Dam, 2.4 mi. E of Fair Oaks. Prior to Jan. 1, 1958 at site 2.2 mi. downstream. Flow regulated by Folsom Reservoir. Records furn. by U.S.G.S. Drainage area is 1,889 sq. mi. (s)																
AMERICAN RIVER AT SACRAMENTO																
38 34 08	121 25 22	SW 3 8N 5E		19.93	7/22/61	176000	45.73	11/21/50			JUL 21-OCT 21 MAY 24-DEC 428 MAY 43-SEP 59	JUL 21-OCT 21 JUN 24-NOV 24 JUN 25-DATE	1921 1921		0.00 -3.07	USED USCGS
Station located at H Street bridge. Backwater at times affects the stage-discharge relationship. Maximum discharge of record listed is for period 1921, 1929-1932, 1934 to date. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 1)																
38 35 00	121 25 07	NW 3 8N 5E							6461	7831	OCT 59-DATE	SEP 59-DATE	1959 1960	1960	0.00 0.00	LOCAL USED
Station located 0.2 mi. W of Howe Avenua, 4.1 mi. E of Sacramento. This is drainage returned by pumping and gravity. (f)																
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 2)																
38 43 07	121 22 44	NE12 8N 5E							8	0	OCT 59-DATE	SEP 59-DATE	1959		0.00	USED
Station located 0.2 mi. above Watt Avenue, 6.3 mi. E of Sacramento. This is drainage returned by pumping and gravity. (f)																
AUBURN RAVINE AT LINCOLN																
38 53 22	121 17 00	SE15 12N 6E									NOV 47-OCT 60 JAN 61-DATE	NOV 47-OCT 60 JAN 61-DATE	 1956	1956	150.74 148.59	USCGS USCGS
Station located 500 ft. below the Lincoln-Newcastle Highway bridge. Tributary to Sacramento River via Natomas Cross Canal. Flow regulated by power plants. Drainage area is 34.6 sq. mi. Station discontinued Oct. 3, 1960 and reinstalled Jan. 17, 1961. (f)																
BEAR CREEK NEAR RUMSEY																
38 56 41	122 20 44	SW30 13N 4W	2360	6.85	12/1/61	8100E	12.33	2/24/58	9789	15450	SEP 55-DATE	SEP 55-DATE	1955		0.00	LOCAL
Station located 7.3 mi. NW of Rumsey, 1.4 mi. above mouth. Tributary to Cache Creak. Drainage area is 96.8 sq. mi. (Revised) (f)																
BEAR RIVER NEAR COLFAX																
39 07 45	120 57 35	NW27 15N 9E				9620	21.40	11/20/50			NOV 11-JUN 17 NOV 49-SEP 53 JAN 58-SEP 59	NOV 11-JUN 17 NOV 49-SEP 53 JAN 58-MAR 61	1958		0.00	LOCAL
Station located 0.2 mi. below Grass Valley-Colfax Highway bridge, 2.0 mi. NW of Colfax, 0.5 mi. below Bear River Canal Diversion. Storage and diversions above station for irrigation and power. Results of measurements listed in supplementary table in report. Drainage area is 105 sq. mi. Station discontinued Mar. 2, 1961. (f)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
BEAR RIVER NEAR WHEATLAND																
39 00 01	121 24 20	SW 3 13N 5E	1900	4.30	1/31/61	33000	19.30	12/22/55			OCT 28-DATE	OCT 28-DATE	1928	1943	81.50	USCGS
													1943		78.92	USCGS
Station located on U. S. Highway 99E bridge, 1 mi. SE of Wheatland. Tributary to Feather River. Medium and low flows affected by upstream regulation. Records furn. by U.S.C.G.S. Drainage area is 295 sq. mi. (s)																
CACHE CREEK ABOVE RUMSEY																
38 54 47	122 16 14	SE 2 12N 4W	13200E	12.90E	12/1/61	20900E	15.29	2/8/60	230400	257500	OCT 59-DATE	OCT 59-DATE	1959		0.00	LOCAL
Station located C.4 mi. below State Highway 16 bridge, 2.5 mi. NW of Rumsey. Flow regulated by Clear Lake. Record listed is not considered to have the same degree of accuracy as other records published in this report. Drainage area is 729 sq. mi. (f)																
CACHE CREEK AT YOLO																
38 43 30	121 48 25		6190	11.56	12/1/60	41400	33.11	2/25/58			JAN 03-DATE	JAN 03-DATE	1903	1930	61.1	USED
													1903	1930	58.24	USCGS
													1930	1954	59.1	USED
													1930	1954	56.27	USCGS
													1944		55.1	USED
													1944		52.27	USCGS
Station located 800 ft. above U. S. Highway 99W bridge, 0.5 mi. S of Yolo. Tributary to Yolo Bypass. Records furn. by U.S.C.G.S. Drainage area is 1,137 sq. mi. (s)																
CALAVERAS RIVER AT BELLOTA																
38 03 13	121 00 45	SW 5 2N 9E	197	6.32	6/8/61				3792	12610	NOV 48-DATE	NOV 48-DATE			0.00	LOCAL
Station located 100 ft. above State Highway 8 bridge, 100 ft. below head gates. Flow regulated by head gates operated by Stockton Irrigation District. (f)																
CALAVERAS RIVER AT JENNY LIND																
38 05 20	120 51 53	NW27 3N 10E	604	3.76	6/1/61	50000	21.0	1/31/11			JAN 07-DATE	JAN 07-DATE				
Station located 70 ft. below Milton Road bridge, 0.2 mi. S of Jenny Lind. Flow affected by upstream regulation. Records furn. by U.S.C.G.S. Drainage area is 395 sq. mi. (s)																
CALAVERAS RIVER NEAR STOCKTON																
38 00 45	121 14 23	NE19 2N 7E	25	4.67	6/12/61	632	9.20	4/4/58	143	4432	DEC 48-DATE	DEC 48-DATE	1955		0.00	LOCAL
Station located 0.5 mi. above U. S. Highway 99 bridge, 4 mi. NE of Stockton. Summer flows regulated by removable diversion dam 40 ft. above station operated by Stockton Irrigation District. (f)																
CLOVER CREEK AT UPPER LAKE																
39 09 56	122 54 28	NW 7 15N 9W	171	4.98	12/1/61	302E	5.71	2/1/60	9711		JAN 60-DATE	JAN 60-DATE	1960		0.00	LOCAL
Station located at wooden bridge, 0.5 mi. above confluence with Middle Creek, 1.0 mi. below bypass channel. Tributary to Clear Lake via Middle Creek. For total contribution of Clover Creek to Clear Lake add to Clover Creek Bypass near Upper Lake. Flow partially controlled by head gates. (f)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

OAOINO STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
CLOVER CREEK BYPASS NEAR UPPER LAKE																
39 10 33	122 54 00	SE 6 15N 9W	611	5.56	12/1/61	797E	6.15	2/8/60	5560	5014	NOV 59-DATE	NOV 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. above Lake Pillsbury Road bridge, 0.8 mi. N of Upper Lake. Tributary to Clear Lake via Middle Creek. (f)																
CONTRA COSTA CANAL NEAR OAKLEY																
37 59 45	121 42 00	NE25 2N 2E							78280	77052	FEB 50-DATE	FEB 50-DEC 52	1950	1952	121.72	USCGS
Station located at Pumping Plant No. 1, 0.7 mi. E of Oakley, 2.6 mi. NW of Knightsen. Water is diverted from Sacramento-San Joaquin Delta by way of Old River, Rock Slough, and a dredged channel. A series of 4 pumping plants lifts the water about 115 ft. into canal. Records furn. by U.S.B.R. (f)																
COON CREEK AT HIGHWAY 99E																
38 56 15	121 20 59	NW31 13N 6E				6180E	54.88	12/23/55			NOV 47-OCT 60 JAN 61-DATE	NOV 47-OCT 60 JAN 61-DATE				
Station located 20 ft. below U. S. Highway 99E bridge, 3.2 mi. SE of Sheridan. Tributary to Sacramento River via Natomas Cross Canal. Drainage area is 82.5 sq. mi. Station Discontinued Oct. 3, 1960 end reinstalled Jan. 17, 1961. (f)																
COPSEY CREEK NEAR LOWER LAKE																
38 53 21	122 35 47	NE14 12N 7W	1260E	9.34	1/31/61	1740E	9.29	2/1/60	4214		JAN 60-DATE	JAN 60-DATE	1960		0.00	LOCAL
Station located 75 ft. below Spruce Grove Road bridge, 1.7 mi. SE of Lower Lake. Tributary to Cache Creek. Drainage area is 13.2 sq. mi. (f)																
COSUMNES RIVER AT McCONNELL																
38 21 29	121 20 34	20 6N 6E	728	32.51	2/3/61	54000	46.26	12/23/55			OCT 41-DATE	JAN 31-MAY 40# OCT 41-DATE	1931		0.00	USED
Station located on U. S. Highway 99 bridge, 0.2 mi. S of McConnell, 7.0 mi. N of Galt. Maximum discharge of record listed is for period 1943 to date. Records furn. by U.S.G.S. Drainage area is 730 sq. mi. (s)																
COSUMNES RIVER AT MICHIGAN BAR																
38 30 00	121 02 45	SE36 8N 8E	486	3.85	3/25/61	42000	14.59	12/23/55			OCT 07-DATE	OCT 07-DATE	1907		168.09	USCGS
Station located on highway bridge, 5.5 mi. SW of Latrobe. At times during low water periods, water is diverted into the river above the station from Jenkinson Lake. Records furn. by U.S.G.S. Drainage area is 537 sq. mi. (s)																
DEER CREEK NEAR NEVADA CITY																
39 16 05	120 59 53	NW 8 16N 9E	51	1.98	3/15/61	812	4.49	4/2/58	7196	16710	JUN 57-DATE	JUN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. NE of Nevada City. Tributary to Yuba River. Flow regulated by Deer Creek and Scotts Flat Reservoirs. Drainage area is 26.0 sq. mi. (f)																
DEER CREEK NEAR SLOUGHHOUSE																
38 33 06	121 06 30	NW16 8N 8E	391	7.50	3/15/61	3100E	10.45	2/8/60	3428	6581	NOV 59-DATE	NOV 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. above Scott Road bridge, 5.5 mi. NE of Sloughhouse. Tributary to Cosumnes River. Drainage area is 46.9 sq. mi. (f)																

E - Estimated 8 - Irrigation season only # - Flood season only (s)- Record of stage published (f)- Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		OATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.B.R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
DELTA CROSS CHANNEL AT WALNUT GROVE																
38 14 48	121 30 25	NE35 5N 4E		16.15*	12/1/60							SEP 52-DATE	1952 1957 1958	1957 1958	-1.37 -1.54 -1.63	USCGS USCGS USCGS
Station located approx. 1,000 ft. below head, just below So. Pacific R. R. bridge. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
DELTA-MENDOTA CANAL NEAR TRACY																
37 47 45	121 35 05	SW31 1S 4E							1488480	1388119	JUN 51-DATE		1951		0.00	USCGS
Station located at Tracy Pumping Plant at intake to canal, 6 mi. SE of Byron, 10 mi. NW of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 ft. into canal. Records furn. by U.S.B.R. (f)																
DRY CREEK NEAR IONE																
38 24 54	120 54 18	SW32 7N 10E	94	4.18	3/17/61	1000E 1000E	7.06 7.06	2/8/60A 2/8/60	1943		FEB 60-DATE	FEB 60-DATE	1960		0.00	LOCAL
Station located 1,000 ft. below State Highway 104 bridge, 4.6 mi. N of Ione. Tributary to Cosumnas River. Recorder installed Feb. 4, 1960. Drainage area is 70.8 sq. mi. (f)																
DRY CREEK NEAR WHEATLAND																
39 01 35	121 26 10		1160	6.58	1/31/61	8790	13.45	12/23/55			OCT 46-DATE	OCT 46-DATE	1946		62.83	USCGS
Station located 2,300 ft. above U. S. Highway 99E bridge, 1.3 mi. NW of Wheatland. Tributary to Bear River. Portion of flow from drainage area may overflow or percolate into Best Slough above station. Records furn. by U.S.G.S. Drainage area is 99.5 sq. mi. (s)																
DUCK CREEK NEAR STOCKTON																
37 55 27	121 14 55	NW19 1N 7E	44E	7.55	2/3/61	400	5.75	12/24/55	1335	1149	JAN 50-APR 50 OCT 50-APR 51 OCT 51-DATE	JAN 50-APR 50 OCT 50-APR 51 OCT 51-DATE	1957		0.00	LOCAL
Station located at Laurel Ave., 1.0 mi. W. of U. S. Highway 99, immediately S of Stockton. Tributary to San Joaquin River via French Camp Slough. During high flow, water from Duck Creek enters Mormon Slough approx. 2 mi. E of the head of Stockton Diverting Canal. Discharge listed does not include this overflow. Flow regulated by gravity culverts which divert to Littlejohn Creek. (f)																
DUCK CREEK DIVERSION NEAR FARMINGTON																
37 56 18	120 59 21	NE16 1N 9E	145	1.78	2/2/61	3690	7.65	4/2/58	103	343	SEP 51-DATE	SEP 51-DATE	1951		105.0	USCGS
Station located 1.0 mi. NE of Farmington. Flows are diversions from Duck Creek to Littlejohn Creek. Records furn. by U.S.C.E. Drainage area is 28 sq. mi. (f)																
PEATHER RIVER NEAR GRIDLEY																
39 22 01	121 38 43	SW33 18N 3E	18200	83.74	1/31/61		102.25	12/23/55	1575000	2313000	JAN 44-DATE	MAR 29-MAY 37# OCT 37-APR 39 NOV 39-JUL 40 OCT 40-JUL 43 OCT 43-DATE	1929		0.00	USED
Station located at highway bridge, 2.7 mi. E of Gridley. (fs)																

E - Estimated B - Irrigation season only # - Flood season only A - Data for 1959-60 Water Year (a) - Record of stage published

(f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
FEATHER RIVER AT NICOLAUS																
38 54 00	121 35 00	SE12 12N 3E	19500	33.73	2/12/61	357000	51.60	12/23/55			JUN 21-OCT 28# JAN 39-DATE	20-DATE	1920		0.00 -3.3	USED USCGS
Station located at new Nicolaus Highway bridge, 2.9 mi. below Bear River, 0.5 mi. SW of Nicolaus. Backwater at times affects the stage-discharge relationship. Flow partly regulated by reservoirs and power plants. Maximum discharge of record is for period 1943 to date. Records furn. by U.S.G.S. Drainage area is approx. 5,920 sq. mi. (s)																
FEATHER RIVER NEAR OROVILLE																
39 32 00	121 28 35	NE 2 19N 4E	22300	29.28	1/31/61	230000		3/19/07			OCT 01-DATE	OCT 01-DATE	1912 1934	1934	139.53 182.02	USCGS USCGS
Station located 75 ft. above Feather River Highway bridge, 4 mi. NE of Oroville. Records prior to Oct. 1934 at a site 5.2 mi. downstream. Flow partly regulated by reservoirs and power plants. Records furn. by U.S.G.S. Drainage area is 3,611 sq. mi. (s)																
FEATHER RIVER BELOW SHANGHAI BEND																
39 04 44	121 36 08	NE11 14N 3E	21800E	45.21E	2/10/61		76.8	12/24/55	2522000	3691000	JUN 44-OCT 45# JAN 46-DATE	NOV 26-MAY 37# OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43# OCT 43-DATE			0.00	USED
Station located approx. 4 mi. S of Yuba City. Flow partly regulated by reservoirs and power plants. High flows rated by means of simultaneous current meter measurements of Yuba River near Marysville and Feather River at Yuba City. Record listed is not considered to have the same degree of accuracy as other records published in this report. (fs)																
FEATHER RIVER AT YUBA CITY																
39 08 20	121 36 17	SE23 15N 3E	15400	50.09	2/10/61		82.42	12/24/55	1900000	2583000	JUL 44-OCT 45# JAN 46-DATE	NOV 43-DATE	1943		0.00	USED
Station located at Yuba City-Marysville "5th Street" Highway bridge (Sacramento No. Railroad bridge). Backwater from Yuba River at times affects stage-discharge relationship. (fs)																
FOLSOM LAKE																
38 42 29	121 09 22	NE24 10N 7E							1180610	1830690	FEB 55-DATE	FEB 55-DATE	1955		0.00	USCGS
Station located 0.7 mi. below So. Fork American River, 2.3 mi. NE of Folsom. Usable capacity, 1,000,000 ac.-ft. between elevations 205.5 and 466.0 ft. above mean sea level, practically all of which is available for release. Spillway design flood pool elevation, 475.4 ft. (capacity, 1,120,000 ac.-ft.) Figures given herein for daily content represent usable content. Inflow to Folsom Reservoir takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the damsite if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Daily content shown is at 12 Noon. Records furn. by U.S.B.R. Drainage area is 1,875 sq. mi.																
FREMONT WEIR SPILL TO YOLO BYPASS																
						294000		12/23/55	0	473900	JAN 35-DATE					
See Sacramento River at Fremont Weir, East End and Sacramento River at Fremont Weir, West End, for stage records and locations. Elev. of weir crest is 33.50 ft. U.S.E.D. datum; length of crest is 9,120 ft. (f)																

E - Estimated # - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT	1960 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC T.&R. M.D.B.&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
FRENCH CAMP SLOUGH NEAR FRENCH CAMP																
37 52 52	121 14 53	NE 6 1S 7E	215	4.05	2/3/61	3390	6.31	12/9/50	3789	13770	JAN 50-MAY 50 OCT 50-DATE	JAN 50-MAY 50 OCT 50-DATE	1950 1955	1955	0.00 4.00	LOCAL LOCAL
Station located at Durham Ferry Road bridge, 1.5 mi. E of French Camp. Supplementary water stage recorder located 0.5 mi. downstream. Tributary to San Joaquin River. Backwater from temporary diversion dam at times affects stage-discharge relationship. During those periods, supplementary recorder used for computations. (f)																
GEORGIANA SLOUGH AT MOKELUMNE RIVER																
38 07 48	121 34 46	NE12 3N 3E		14.77*	12/1/60		7.1	12/26/55				JUN 29-DATE	1929 1940 1940	1940	0.00 0.00 3.11	USED USCGS USED
Station located on Andrus Island, 2.8 mi. SE of Isleton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
GRANT LINE CANAL AT TRACY ROAD BRIDGE																
37 49 13	121 26 55	NE29 1S 5E		17.53*	12/1/60							OCT 40-DATE	1940 1952 1953	1952 1953	-3.66 -4.13 -2.13	USCGS USCGS USCGS
Station located at Tracy Road bridge crossing, 5 mi. N of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
INDIAN CREEK NEAR BOULDER CREEK GUARD STATION																
40 10 00	120 36 57	SW27 27N 12E				20	3.06E	6/12/61			JUN 61-DATE	JUN 61-DATE	1961		0.00	LOCAL
Station located 2.2 mi. S of Boulder Creek Guard Station, 11 mi. NE of Genesee. Tributary to East Branch North Fork Feather River. Stage-discharge relationship at times affected by ice. Recorder installed June 11, 1961. (f)																
INDIAN CREEK NEAR TAYLORSVILLE																
40 03 31	120 49 10	NW 1 25N 10E	464	3.02	4/4/61	22400E	11.49	12/23/55	73490	127600	SEP 54-DATE	AUG 54-DATE	1954		0.00	LOCAL
Station located 0.7 mi. below Montgomery Creek, 1.5 mi. SE of Taylorsville. Stage-discharge relationship at times affected by ice. Drainage area is 533 sq. mi. (f)																
LAKE BERRYESSA																
38 30 50	122 06 15	NW29 8N 2W										JAN 57-DATE	1957		0.00	USCGS
Station located near center of Monticello Dam, 7.5 mi. W of Winters. Usable capacity, 1,592,000 ac.-ft. between elevations 253.25 and 440 ft. Not available for release, 10,340 ac.-ft. Period of record for daily content is shown under period of record for stage. Daily content shown is at 12 Noon. Records furn. by U.S.B.R. Drainage area is 577 sq. mi.																
LIGHTS CREEK NEAR TAYLORSVILLE																
40 09 59	120 47 33	SW30 27N 11E	180	2.17	4/3/61				17490	21020	SEP 54-DATE	SEP 54-DATE	1954		0.00	LOCAL
Station located 0.4 mi. below Moonlight Creek, 6.7 mi. N of Taylorsville. Tributary to East Branch North Fork Feather River via Indian Creek. Stage-discharge relationship at times affected by ice. Drainage area is 57.6 sq. mi. (f)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

OAOINO STATION DESCRIPTION
CENTRAL VALLEY REOION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
LINDA CREEK NEAR ROSEVILLE																
38 44 04	121 18 05	SE10 10N 6E							33640	34800	JUL 49-DATE	JUL 49-DATE	1956	1956	111.22	USCOS
Station located above So. Pacific Railroad bridge, 0.6 mi. below Auburn Boulavard (old U. S. Highway 99E), immediately SW of Roseville. Also known as "Dry Creek near Roseville". Tributary to Sacramento River via Back Borrow Pit of Reclamation District 1000. (f)																
LITTLEJOHN CREEK AT FARMINGTON																
37 55 38	121 00 08	NE19 1N 9E	228	3.37	2/2/61	3590	15.40	4/3/58	691	5748	JUN 52-DATE	JUN 52-DATE	1952		89.97	USCOS
Station located 340 ft. below Farmington-Escalon Highway bridge. These flows include flows entering Littlejohn Creak via Duck Creak Diversion. Records furn. by U.S.C.E. (f)																
LITTLE LAST CHANCE CREEK NEAR CHILCOOT																
39 52 01	120 10 13	SE 3 23N 16E							2705	10590	JUL 54-DATE	JUL 54-DATE	1954		0.00	LOCAL
Station located 300 ft. below county road bridge, 5.1 mi. N of Chilcoot. Tributary to Middle Fork Feather River. Staga-discharge ralationship at times affected by ica. Drainage area is 84.2 sq. mi. (f)																
McLEOD LAKE AT STOCKTON																
37 57 23	121 17 30	SW 2 1N 6E		18.39*	2/11/61							NOV 23-DATE	1933		-3.37	USCOS
													1958		-3.80	USCOS
													1961		-3.93	USCOS
Station located at U. S. Coast Guard Stockton Channel Light Attendant Station on Center Street. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (f)																
MIDDLE CREEK NEAR UPPER LAKE																
39 12 32	122 55 31	SW25 16N 10W									OCT 48-SEP 53 MAR 59-SEP 59	OCT 48-DATE	1948		0.00	LOCAL
Station located 100 ft. below Lake Pillsbury Road bridge, 3.1 mi. N of Upper Lake. Tributary to Clear Lake. Reaults of measurements listed in supplementary table in report.																
MIDDLE FORK FEATHER RIVER NEAR PORTOLA																
39 49 13	120 26 24	NE29 23N 14E	184	2.58	1/31/61				19210	70050	NOV 55-DATE	NOV 55-DATE	1955		0.00	LOCAL
Station located S of U. S. Highway 40A, 1.8 mi. NE of Portola. Stage-discharge relationship at times affected by ica. (f)																
MIDDLE RIVER AT BACON ISLAND																
38 00 07	121 31 22	SW22 2N 4E		17.51*	12/1/60							OCT 48-DATE	1948		-2.94	USCOS
Station located at NE corner of Bacon Island at junction of Middle River and Connection Slough. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MIDDLE RIVER AT BORDEN HIGHWAY																
37 53 28	121 29 20	NW36 1N 4E		14.34*	2/11/61		7.2	12/26/55				JUL 39-DATE	1939	1943	-4.10	USCOS
													1943		0.00	USCOS
													1943		3.15	USED
Station located on Victoria Island, below State Highway 4 bridge, 10 mi. NW of Tracy. Station affected by tidal action. Maximum gage height listed does not indicete maximum discharge (s)																
MIDDLE RIVER AT MOWRY BRIDGE																
37 50 04	121 22 59	NE24 1S 5E		17.20*	12/1/60							JUL 48-DATE	1948	1952	-2.70	USCOS
													1952		-2.67	USCOS
Station located at Undina Road crossing on Upper Roberts Island. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated I - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

*- In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D.B.&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
MILLER CREEK NEAR SATTLEY																
39 36 03	120 25 19	NE 9 20N 14E	16	0.95	6/1/61	213	4.08	12/23/55	2537	4178	SEP 54-DATE	SEP 54-DATE	1954 1958	1958	0.00 -1.00	LOCAL LOCAL
Station located 0.2 mi. W of State Highway 89, 1.0 mi. S of Sattley. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 7.6 sq. mi. (f)																
MINER SLOUGH AT FIVE POINTS																
38 17 30	121 38 40	SE 9 5N 3E		18.61*	2/11/61		15.8	2/27/58				NOV 57-DATE	1957 1957		0.00 -3.45	USED USCGS
Station located on West Cut above junction with Miner Slough, approx. 750 ft. N of Five Points Resort. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MOKELUMNE RIVER NEAR THORNTON																
38 15 20	121 26 21	NW28 5N 5E		14.48*	12/1/60		8.7	2/10/60				FEB 59-DATE	1959		0.4	USCGS
Station located at highway bridge 2.3 mi. NW of Thornton. Also known as "Mokelumne River at Benson's Ferry". Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MOKELUMNE RIVER AT WOODBRIDGE																
38 09 30	121 18 10	NE34 4N 6E	1930	13.47	11/10/60	27000	29.58	11/22/50			MAY 24-OCT 258 JAN 26-DATE	MAY 24-DATE	1924 1931	1931	18.86 14.86	USCGS USCGS
Station located 0.3 mi. below county highway bridge, 0.4 mi. below dam and canal intake of Woodbridge Irrigation District. Flow regulated by Pardee and Woodbridge Reservoirs. Records furn. by U.S.G.S. Drainage area is 644 sq. mi. (s)																
MORMON SLOUGH AT BELLOTA																
38 03 10	121 00 37	SW 5 2N 9E	242	5.36	2/2/61				3458	23010	DEC 48-DATE	DEC 48-DATE	1952		0.00	LOCAL
Station located 0.2 mi. above Farmington-Bellota Highway bridge, 0.2 mi. E of Bellota. Flow regulated by Hogan Reservoir. During irrigation season, flow is rereguated by boards placed across diversion dam immediately downstream which control division of water between the Calaveras River and Mormon Slough. This is flow from Calaveras River which is returned to the river via Stockton Diverting Canal. (f)																
NATOMAS CROSS CANAL AT HEAD																
38 49 19	121 32 34	NE 8 11N 4E		30.36	2/14/61						DEC 49-DEC 57	DEC 49-FEB 58 JAN 60-DATE#	1955	1955	0.00 0.34	USED USED
Station located at El Centro Boulevard bridge, 4.8 mi. NE of Verona. Tributary to Sacramento River. Backwater from the Sacramento River at times affects the stage-discharge relationship. Gage heights below 18.0 ft. are not recorded. (s)																
NORTH HONCUT CREEK NEAR BANGOR																
39 20 32	121 29 25	SW11 17N 4E	1780	7.69	1/31/61	2890	8.57	2/7/60	17330	22470	OCT 59-DATE	OCT 59-DATE	1959		0.00	LOCAL
Station located 0.4 mi. N of Honcut-Wyand Road and Bangor Highway junction, 5.7 mi. SW of Bangor. Tributary to Feather River. Drainage area is 47.1 sq. mi. (f)																
OLD RIVER AT CLIFTON COURT FERRY																
37 49 28	121 33 05	SE20 1S 4E		16.43*	2/11/61							DEC 48-DATE	1948 1952	1952	-2.25 -2.12	USCGS USCGS
Station located approx. 2,000 ft. below junction with Grant Line Canal. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated b - Irrigation season only # - Flood season only (s) - Record of stage published. (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

OAOINO STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
OLD RIVER AT HOLLAND TRACT																
38 00 26	121 34 47	NW19 2N 4E		18.00*	12/1/60							SEP 51-DATE	1951	1955	-2.61	USCGS
Station located approx. 1.5 mi. S of NE corner of Holland Tract. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
OLD RIVER AT MANSION HOUSE																
37 54 37	121 33 39	NW29 1N 4E		14.49*	12/1/60		7.4	12/26/55				AUG 39-DATE	1939 1943 1943	1943	2.3 0.00 3.15	USED USCGS USED
Station located on Victoria Island, 0.2 mi. S of North Victoria Canal, 7.5 mi. E of Brentwood. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
OLD RIVER NEAR ROCK SLOUGH																
37 59 25	121 34 49	SW30 2N 4E		17.41* 17.41*	12/1/60 2/11/61		10.0	12/26/55				MAR 45-DATE	1945 1945		0.00 -3.0	USED USCGS
Station located on American Island (formerly Holland Tract), 1.2 mi. N of Rock Slough, 4.7 mi. NE of Knightsen. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
OLD RIVER NEAR TRACY ROAD BRIDGE																
37 48 30	121 26 06	SW32 1S 5E		18.53*	2/11/61		13.2	12/29/55				JUN 51-DEC 548 FEB 55-DATE			-4.44	USCGS
Station located 30 ft. above Tracy Road bridge, 3.5 mi. NW of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
PLEASANTS CREEK NEAR WINTERS																
38 28 40	122 01 43	SE 1 7N 2W	250	4.44	1/26/61	4000E	14.78	2/16/59	524	2085	NOV 51-JUN 54 OCT 57-DATE	NOV 51-JUN 54 OCT 57-DATE	1957		150.33	USCGS
Station located 1.0 mi. above mouth, E of Pleasants Valley Road, 4.4 mi. SW of Winters. Tributary to Yolo Bypass via Putah Creek. Drainage area is 15.9 sq. mi. (f)																
POPE CREEK NEAR POPE VALLEY																
38 37 54	122 19 58	SW17 9N 4W				5510	10.36	1/31/61			DEC 60-DATE	DEC 60-DATE	1960		0.00	LOCAL
Station located 0.2 mi. above spillway elevation of Lake Berryessa, 5.2 mi. E of Pope Valley. Tributary to Lake Berryessa. Recorder installed Dec. 19, 1960. Drainage area is 78.3 sq. mi. (f)																
PUTAH CREEK ABOVE DAVIS																
38 32 13	121 51 00	SW15 8N 1E	291	5.25	1/31/61	8260	15.53	2/16/59	11190	14200	MAY 52-NOV 538 OCT 57-DATE	MAY 52-NOV 538 OCT 57-DATE	1957		47.52	USCGS
Station located at Stevenson Road bridge, 6.0 mi. W of Davis. Tributary to Yolo Bypass via South Fork Putah Creek. (f)																
PUTAH CREEK BELOW WINTERS																
38 31 47	121 55 21	NE24 8N 1W	216	6.29	1/31/61	7980	12.82	2/16/59	13130	18850	OCT 57-DATE	OCT 57-DATE	1957		75.06	USCGS
Station located at Boyce Orchard, 2.7 mi. E of Winters. (f)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
PUTAH CREEK NEAR WINTERS																
38 31	122 05	NE28 8N 2W	585	7.55	7/4/61	81000	30.5	2/27/40			JUN 30-DATE	JUN 30-DATE	1930 1940	1940	161.6 160.75	USCGS USCGS
Station located 1.0 mi. below Monticello Dam, 6 mi. W of Winters. Flow regulated by Lake Berryessa. Low-water records are not equivalent to records near Davis. Records furn. by U.S.G.S. Drainage area is 577 sq. mi. (s)																
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (Prichard Lake)																
38 43 51	121 36 07	SE12 10N 3E							0	0	JAN 55-DATE					
Plant located 3.9 mi. S of Verona. This is drainage returned by pumping only. Additional water is returned by Second Bannon Slough Plant and an undetermined amount by No. 3 Plant. There is an undetermined amount of gravity flow. (f)																
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (Second Bannon Slough)																
38 36 21	121 31 26	SW22 9N 4E							12370	12250	MAY 25-OCT 388 JAN 39-DATE					
Plant located 3.0 mi. NW of Sacramento. This is drainage returned by pumping. Additional water is returned by Prichard Lake Plant and an undetermined amount by No. 3 Plant. (f)																
RECLAMATION DISTRICT 1001 DRAINAGE TO NATOMAS CROSS CANAL																
38 47 26	121 35 47	NW24 11N 3E							3166	7754	JAN 40-DATE					
Plant located 1.2 mi. E of Verona. This is drainage returned by pumping only. There is an undetermined amount of gravity flow. (f)																
RED CLOVER CREEK NEAR GENESEE																
40 02 56	120 39 41	SW 5 25N 12E	84 84	2.74 2.67	12/1/60 3/27/61	4180E	7.98	12/23/55	13380	32740	AUG 54-DATE	AUG 54-DATE	1954		0.00	LOCAL
Station located 1.4 mi. above mouth, 5 mi. E of Genesee. Tributary to East Branch North Fork Feather River via Indian Creek. Stage-discharge relationship at times affected by ice. Drainage area is 122 sq. mi. (f)																
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																
37 58 35	121 38 19	SW34 2N 3E		17.56*	12/1/60							OCT 44-FEB 46 DEC 46-DATE	1944 1952	1952 1953	0.40 0.50	USCGS USCGS
Station located at Contra Costa Canal intake approx. 1.5 mi. NE of Knightsen. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO RIVER AT CLARKSBURG																
38 25 25	121 31 42	SW27 7N 4E		23.29*	2/14/61		24.0	12/23/55				MAR 36-OCT 61	1936 1936		0.00 -3.1	USED USCGS
Station located at American Crystal Sugar Company dock, immediately N of Clarksburg. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. Station discontinued Oct. 6, 1961. (s)																
SACRAMENTO RIVER NEAR FREEPORT																
38 28 23	121 31 58	SW10 7N 4E		22.18*	2/14/61							AUG 55-DATE	1955 1956	1956	4.93 0.00	USCGS USCGS
Station located 10.7 mi. below Sacramento, 1.9 mi. NW of Freeport. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																

E - Estimated ß - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SACRAMENTO RIVER AT FREMONT WEIR, EAST END																
38 45 55	121 38 05	SW27 11N 3E					39.3	3/1/40				APR 35-DATE	1935		0.00	USED
Station located approx. 200 ft. N of weir, 5.2 mi. SE of Knights Landing. Gage heights below weir crest (33.50 ft.) are not tabulated. (s)																
SACRAMENTO RIVER AT FREMONT WEIR, WEST END																
38 45 34	121 39 59	NW32 11N 3E		32.98	2/13/61		39.7	12/23/55				AUG 34-DATE	1934		0.00	USED
Station located 0.1 mi. W of weir, 4.0 mi. SE of Knights Landing. (s)																
SACRAMENTO RIVER AT ISLETON																
38 09 46	121 36 42	SW26 4N 3E		17.91*	2/11/61							APR 49-DATE	1949	1952	-4.41	USCGS
													1952	1953	-4.47	USCGS
Station located at Shell Oil Company docks near junction of State Highways 12 and 24, immediately NW of Isleton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO RIVER AT PRICHARD LAKE																
38 43 51	121 36 07	SE12 10N 3E										15-DATE			0.00	USED
Staff located at Reclamation District 1000 pumping plant, 3.9 mi. S of Varona. Gage read daily by pump operators. (s)																
SACRAMENTO RIVER AT RIO VISTA																
38 08 42	121 41 30	SW31 4N 3E		18.12*	2/11/61		10.0	12/26/55				25-DATE	1925		0.00	USED
													1925		-3.06	USCGS
													1961		-3.63	USCGS
Station located on dock at U. S. Engineers Transportation Depot, 1.1 mi. below the Rio Vista bridge. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO RIVER AT SACRAMENTO																
38 35 19	121 30 15	NW35 9N 4E	49800	25.89*	2/14/61	104000	30.14	11/21/50	11390000	11700000	04- 05	JAN 04-JUL 05		1956	0.12	USCGS
											JUN 21-NOV 21	20-DATE		1956	3.10	USED
											MAY 24-DEC 428		1956		0.00	USCGS
											MAY 43-DATE		1956		2.98	USED
Station located 1,000 ft. above the I Street bridge, 0.5 mi. below the American River. This represents the flow of the Sacramento River past Sacramento into the Delta. Additional Secremento River water reaches the Delta via Sacramento Weir and Yolo Bypass near Woodland. Below approx. 35,000 c.f.s., the stage-discharge relationship is effected by tidal influence. Maximum discharge of record listed is for period 1921, 1948 to date. Records furn. by U.S.G.S. (fs)																
SACRAMENTO RIVER AT SACRAMENTO WEIR																
38 36 09	121 33 12	NE29 9N 4E		31.19*	2/14/61		33.1	12/23/55				NOV 26-JUL 37#	1926		0.00	USED
												OCT 37-DATE	1926		-3.07	USCGS
Station located 100 ft. below weir, 4 mi. NW of Sacramento. Station affected by tidal action. (s)																
SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR																
38 36 24	121 33 15	SE20 9N 4E										42-JUN 61#	1942		0.00	USED
Station located immediately E of weir, 4.2 mi. NW of Sacramento. Gage heights below weir crest (25.00 ft.) are not tabulated. Station discontinued June 7, 1961. (s)																

E - Estimated # - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

*- In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M D.B.&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
SACRAMENTO RIVER AT SECOND BANNON SLOUGH																
38 36 21	121 31 26	SW22 9N 4E										15-DATE	1915		0.00	USED
Station located at Reclamation District 1000 pumping plant, 3.0 mi. NW of Sacramento. Gage read twice daily by pump operators. (s)																
SACRAMENTO RIVER AT SNODGRASS SLOUGH																
38 21 02	121 31 56	SW22 6N 4E		21.42*	2/14/61		20.5	12/23/55				AUG 39-DATE	1939		0.00	USED
				21.42*	2/15/61								1939		-3.02	USCGS
Station located 0.2 mi. above head of slough (leveed off from river), W of State Highway 24, 2.5 mi. NE of Courtland. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SACRAMENTO RIVER AT VERONA																
38 46 50	121 36 10	SE23 11N 3E	48300	30.05	2/13/61	79200	41.20	3/1/40			MAY 26-OCT 288 MAY 29-DATE	MAY 26-DATE	1926		-0.06	USED
Station located 0.8 mi. SE of Verona, 1.0 mi. below the Feather River. Maximum discharge listed is for period 1926 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT WALNUT GROVE																
38 14 22	121 30 57	SW35 5N 4E		16.60*	2/15/61		12.4	4/4/58				FEB 29-DATE	1929	1931	0.00	USED
													1931	1940	0.33	USED
													1940		0.00	USCGS
													1940		2.84	USED
Station located at head of Georgiana Slough, immediately SW of Walnut Grove. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO WEIR SPILL TO YOLO BYPASS																
						118000E	32.8	3/26/28	0	1543	26-DATE					
See Sacramento River at Sacramento Weir and Sacramento River opposite Sacramento Weir for stage records and locations. Elevation of fixed crest of weir is 25.0 ft. U.S.E.D. datum; elevation of movable crest (top of needles) is 31.0 ft. U.S.E.D. datum. There are 48 gates, each 38 ft. in length. Gates not opened during year. (f)																
SAN JOAQUIN RIVER AT ANTIOCH																
38 01 04	121 48 06	SW18 2N 2E		14.26	2/11/61		6.2	12/26/55				JUN 29-DATE	1929	1940	0.00	USED
													1940	1957	0.00	USCGS
													1957		-9.96	USCGS
													1957		-6.97	USED
Station located on wharf at city water works immediately N of Antioch. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT BRANDT BRIDGE																
37 51 53	121 19 18	NW 9 1S 6E		18.46*	12/1/60							JUL 40-DATE	1940	1952	-3.61	USCGS
													1952		-3.79	USCGS
Station located on Bowman Road between Roberts Island and Reclamation District 17. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated U - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																
37 47 12	121 18 21	SW 3 2S 6E		14.20*	2/11/61		24.4	12/10/50				20-DATE	1920	1943	5.16	USED
													1943		0.00	USCGS
													1943		3.27	USED
Station located below U. S. Highway 50 bridge, 3.0 mi. SW of Lathrop. Station effected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT RINDGE PUMP																
37 59 51	121 25 06	NW27 2N 5E		14.55*	12/1/60		7.1	12/ /55				JUL 39-DATE	1939	1940	-2.2	USED
													1940		0.00	USCGS
													1940		3.0	USED
Station located on Rindge Tract at Fourteenmile Slough near junction with Stockton Ship Channel, 8 mi. NW of Stockton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING																
38 06 12	121 35 26	SE13 3N 3E		17.36*	12/1/60							MAY 52-DATE	1952		-2.84	USCGS
Station located approx. 1.2 mi. below Mokelumne River. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT VENICE ISLAND																
38 03 01	121 29 45	NE 2 2N 4E		18.08*	12/1/60		10.7	12/26/55				OCT 27-DATE	1927		-3.45	USCGS
													1959		-4.00	USCGS
Station located on Little Connection Slough on Empire Island, 0.7 mi. S of Venice Island Ferry. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SCOTT CREEK NEAR LAKEPORT																
39 03 43	122 56 49	SW14 14N 10W	3160	9.81	2/8/60A				29510A		OCT 48-SEP 53	OCT 48-DATE	1948		0.00	LOCAL
			2940	9.43E	12/1/60				35170	38040	MAR 59-DATE					
Station located 100 ft. below Hartley Cemetery Road bridge, 0.8 mi. NW of Lakeport. Tributary to Clear Lake. Drainage area is 52.3 sq. mi. (f)																
SCOTT CREEK AT UPPER LAKE																
39 09 32	122 55 13	SW12 15N 10W					13.37	2/9/60A				NOV 59-DATE	1959		0.00	USCGS
				10.29	12/1/60		13.37	2/9/60								
Station located 0.1 mi. above State Highway 29 bridge, 0.7 mi. SW of Upper Lake. Gage Height reflects the elevation of Upper Lake as well as flow of Scott Creek. Revision of 1960 data included in this report. Recorder installed Nov. 12, 1959. (s)																
SMITHNECK CREEK NEAR LOYALTON																
39 37 52	120 11 54	NW33 21N 16E	34	4.34	8/7/61	702	4.87	12/23/55	3537	4695	JUL 54-DATE	JUL 54-DATE	1954		0.00	LOCAL
Station located 100 ft. W of county road, 4.0 mi. SE of Loyalton. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 31.6 sq. mi. (f)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

A - Data for 1959-60 Water Year

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SNODGRASS SLOUGH AT TWIN CITIES ROAD BRIDGE																
38 16 37	121 29 45	NW24 5N 4E		15.77*	12/1/60		14.4	4/4/58				OCT 57-DATE			8.79	USCGS
Station located on Twin Cities Road (Laurel Land) bridge, approx. 3 mi. NE of Walnut Grove. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE																
38 13 36	121 29 26	NW 1 4N 4E		14.75*	12/1/60		13.3	12/25/55				AUG 20-DATE	1920	1940	0.26	USED
													1940		0.00	USCGS
													1940		2.84	USED
Station located on Statan Island, S of Walnut Grove-Thornton Highway bridge, 3.8 mi. W of Thornton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SOUTH FORK PUTAH CREEK NEAR DAVIS																
38 31 02	121 45 21	NE28 8N 2E	171	4.63	2/1/61	8410	12.93	2/16/59	6846	9367	OCT 57-DATE	OCT 57-DATE	1957		24.57	USCGS
Station located at Low Water bridge, 0.8 mi. below U. S. Highway 40 bridge, 2.3 mi. SW of Davis. Tributary to Yolo Bypass. (f)																
SOUTH SAN JOAQUIN IRRIGATION DISTRICT DRAIN 11 NEAR MANTECA																
37 45 38	121 16 50	SW14 2S 6E	37	3.90	7/9/61	69	5.06	8/22/60	7049		JAN 59-DATE	JAN 59-DATE	1959		0.00	LOCAL
Station located 400 ft. E of Walthall Slough, 1.9 mi. SE of junction of State Highway 120 and U. S. Highway 50, 4.3 mi. SW of Manteca. This is drainage returned to San Joaquin River via Walthall Slough. Data insufficient to compute flow during periods of backwater from San Joaquin River. (f)																
SPANISH CREEK NEAR QUINCY																
39 56 43	121 00 20	NW17 24N 9E	1600	5.93	1/31/61				56670	74880	AUG 54-DATE	AUG 54-DATE	1956		0.00	LOCAL
Station located on north edge of Bucks Lake Road, 3.2 mi. W of Quincy. Tributary to East Branch North Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 69.1 sq. mi. (f)																
STOCKTON DIVERTING CANAL AT STOCKTON																
37 59 01	121 15 09	NW31 2N 7E	193	6.27	2/3/61	11400E	17.10E	4/4/58E	1183	19500	JAN 44-DATE	JAN 44-DATE	1954		0.00	LOCAL
Station located 200 ft. below Waterloo Road bridge, immediately NE of Stockton. This is water diverted from the Calaveras River by Mormon Slough and returned to the river by Stockton Diverting Canal. During high flow periods, overflow from Calaveras River and Duck Creek may be included. (f)																
STOCKTON SHIP CHANNEL AT BURNS CUTOFF																
37 57 46	121 21 54	SW 6 1N 6E		17.72*	12/1/60							MAY 40-DATE	1940	1943	-4.22	USCGS
													1943	1945	-4.39	USCGS
													1945	1946	-4.70	USCGS
													1946	1951	-3.00	USCGS
													1951		-3.02	USCGS
Station located on north end of Rough and Ready Island, approx. 0.4 mi. above Burns Cutoff. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SUTTER CREEK NEAR SUTTER CREEK																
38 23 46	120 46 49	SE 5 6N 11E	61	1.27	11/26/61	87	1.39	4/27/60	3096		JAN 36-DEC 41 MAR 60-DATE	JAN 36-DEC 41 MAR 60-DATE	1936		0.00	LOCAL
Station located 0.4 mi. below Volcano Road bridge, 1.3 mi. E of Sutter Creek. Tributary to Cosumnes River via Dry Creek. Prior records available at a site 1.7 mi. downstream. Drainage area is 50.6 sq. mi. (f)																

E - Estimated b - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D.B.&M	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
THREEMILE SLOUGH AT SACRAMENTO RIVER																
38 06 18	121 41 57	SE13 3N 2E		14.43	2/11/61		6.7	12/26/55				APR 29-DATE	1929	1940	0.00	USED
													1940	1959	0.00	USCGS
													1959		-10.00	USCGS
													1959		-6.78	USED
Station locatad on Sherman Island, 0.1 mi. E of State Highway 24 bridga, 3.6 mi. S of Rio Vista. Station affectad by tidal action. Maximum gage height liated does not indicate maximum discharge. (s)																
THREEMILE SLOUGH AT SAN JOAQUIN RIVER																
38 05 13	121 41 07	SE19 3N 3E		14.10	12/1/60		5.9	4/6/58				JUN 29-DATE	1929	1940	0.00	USED
													1940	1959	0.00	USCGS
													1959		-10.00	USCGS
													1959		-7.11	USED
Station located on Sherman Island, 4.9 mi. S of Rio Vista. Station affected by tidal action. Maximum gage haight listad doas not indicata maximum discharga. Maximum of record is maximum recorded staga. Record not complata in Dacamber 1955. (s)																
TOM PAINE SLOUGH ABOVE MOUTH																
37 47 27	121 25 03	NW 4 2S 5E		18.58*	2/11/61		14.6	12/29/55				JUN 51-DEC 51 APR 53-OCT 53 APR 54-DATE				
Station locatad 0.1 mi. E of mouth of Sugar Cut, 2.2 mi. abova mouth, 2.6 mi. N of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
WOLF CREEK NEAR WOLF																
39 02 41	121 06 32	SE20 14N 8E	1460	13.16	3/15/61				30090	50440	MAY 57-DATE	MAY 57-DATE	1957		0.00	LOCAL
Station located 0.8 mi. W of State Highway 49, 1.9 mi. SE of Wolf. Tributary to Bear River. Drainage area is approx. 76 sq. mi. (f)																
YOLO BYPASS AT LIBERTY ISLAND																
38 19 15	121 40 00	SW32 6N 3E		18.07*	2/11/61		18.4	2/8/42				18-DATE	1918		0.00	USED
													1918		-2.92	USCGS
Station located on east levee of Liberty Island, approx. 3 mi. N of Prospect Slough, 5.3 mi. W of Courtland. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
YOLO BYPASS AT LINDSEY SLOUGH																
38 14 45	121 42 26	SW24 5N 2E		18.24*	2/11/61		16.1	2/8/42				JAN 42-DATE	1942		0.00	USED
													1942		-2.92	USCGS
Station located at California Packing Corporation Headquarters, 6.2 mi. N of Rio Vista. Station affected by tidal action. Maximum gage haight listed does not indicate maximum discharge. (s)																
YOLO BYPASS NEAR LISBON																
38 28 30	121 35 14	SE 1 7N 3E		20.72*	2/6/61							FEB 59-DATE	1959			
Station located 0.1 mi. N of east end of Sacramento Northern Railway trestle, 5.2 mi. NW of Clarksburg. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. Record listed is not considered to have the same degree of accuracy as other records published in this report. (s)																
YOLO BYPASS ABOVE SACRAMENTO BYPASS																
38 35 59	121 35 23	NE25 9N 3E		17.00	2/3/61		26.9	12/24/55				25-DATE	1925		0.00	USED
													1925		-3.07	USCGS
Station located at intersection of east levea of Yolo Bypass and north lavee of Sacramento Bypass, 5.6 mi. NW of Sacramento. Gaga heights below 10.4 ft. are not recordad. (s)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of staga published (f) - Record of flow published

*- In ordar to machine procesa tha data for this station, it was necessary to avoid negativa gage heights. Subtract 10.00 feet to obtain recordar gaga haight.

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
DELTA BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
YOLO BYPASS NEAR WOODLAND																
38 40 40	121 38 35	SE28 10N 3E	3970	20.32	2/2/61	272000	32.00	2/8/42			MAR 30-OCT 38B JAN 39-DATE	40- 41# 41-DATE	1930 1941	1941	0.73 0.00	USED USED
Station located just above the Sacramento-Woodland Railroad bridge, 6 mi. above the Sacramento Bypass, 7 mi. E of Woodland. Gage heights below 9.5 ft. are not recorded. Records furn. by U.S.G.S. (s)																
YUBA RIVER AT ENGLEBRIGHT DAM																
39 14 22	121 16 00	SE14 16N 6E	5410	29.37	2/10/61	148000		12/23/55			OCT 41-DATE	NOV 41-DATE	1941 1958	1958	526.99 0.00	USCGS USCGS
Station located above spillway of Englebright Dam, 1.0 mi. above Deer Creek, 2.5 mi. NE of Smartville. Flow regulated by Lake Spaulding, Englebright Reservoir, Bowman Lake, Fordyce Lake, and many smaller reservoirs. Maximum discharge listed includes flow through powerhouse. Records furn. by U.S.G.S. Drainage area is 1,104 sq. mi. (s)																
YUBA RIVER NEAR MARYSVILLE																
39 10 35	121 31 25		5740	65.27	2/11/61						JUL 39-DEC 44B APR 45-DATE	MAY 40-DATE	1939		0.00	USED
Station located 4.2 mi. NE of Marysville, 5 mi. below Dry Creek. Prior to Sept. 30, 1957 at site 4.2 mi. downstream. Records furn. by U.S.G.S. Drainage area is 1,335 sq. mi. (s)																

E - Estimated B - Irrigation season only # - Flood season only (s) - Record of stage published (f) - Record of flow published

* - In order to machine process the data for this station, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 16

OAGINO STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
BEAR CREEK BELOW BEAR RESERVOIR																
37 21 27	120 14 05	NE 5 7S 16E	291		12/2/60	4460		12/24/55	1567	7736	JAN 55-DATE	JAN 55-DATE	1955		320.50	USCGS
Station located approx. 0.75 mi. below Bear Dam. Tributary to San Joaquin River. Flow regulated by Bear Reservoir. Records furn. by U.S.C.E. Drainage area is 72 sq. mi. (f)																
BEAR CREEK NEAR CATHAY																
37 28 38	120 06 43	SW21 5S 17E	999	6.94	12/ 1/60	2570E	9.36	4/ 3/58	988	5749	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located at highway bridge, 3.7 mi. N of Cathay School. Tributary to San Joaquin River. Drainage area is 24.9 sq. mi. (f)																
BIG CREEK DIVERSION NEAR FISH CAMP																
37 28 10	119 36 52	NE25 5S 21E	29	1.42	4/ 4/61				5067	6087	DEC 58-DATE	DEC 58-DATE	1958		0.57	LOCAL
Station located 195 ft. above road bridge, 1.4 mi. SE of Fishcamp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at times affected by ice.																
BURKHARDT DRAIN NEAR GRAYSON																
37 36 53	121 12 20	SW 4 4S 7E	50	1.93	4/22/61	105E	2.00	7/ 4/59			APR 57-DATE 8	APR 57-DATE 8			0.00	LOCAL
Station located 1.2 mi. E of El Solyo Ranch, 2.6 mi. N of Grayson. This includes flow of Hospital Creek and drainage returned to San Joaquin River. Maximum discharge listed is for irrigation season only. (f)													1959		1.00	LOCAL
BURNS CREEK BELOW BURNS RESERVOIR																
37 22 27	120 16 35	NE36 6S 15E	246		3/15/61	2590		12/24/55	184	2887	APR 50-DATE	APR 50-DATE	1950		260.60	USCGS
Station located 0.5 mi. below Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir. Records furn. by U.S.C.E. Drainage area is 73.8 sq. mi. (f)																
BURNS CREEK AT HORNITOS																
37 29 42	120 14 17	SE17 5S 16E	14	3.19	2/ 2/61	2140E	6.57	2/10/60	111	1678	DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 130 ft. S of Stockton-Mariposa Road, 0.2 mi. SW of Hornitos. Drainage area is 26.7 sq. mi. (f)																

E - Estimated
(s) - Record of atage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	I/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC-FT	CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
CROSS CREEK BELOW LAKELAND CANAL 2																
36 12 42	119 34 05	NE10 20S 22E							0	0	21-DATE					
Station located below Cross Creek Weir, 4 mi. E of Guernsey. Tributary to Tulare Lake Area. At times the flow is a combination of water from Kaweah River, Kings River and Cottonwood Creek. Records furn. by Corcoran Irrigation District. (f)																
DEER CREEK AT TERRA BELLA IRRIGATION DISTRICT																
35 56 36	118 49 36	SE10 23S 29E							7555	13971	OCT 19-DATE	OCT 19-DATE				
Station located approx. 1 mi. upstream from mouth of Pothole Creek on Deer Creek. Record available from 1919 to date at Terra Bella Irrigation District Engineer's office in Porterville. Drainage area is 66 sq. mi. (f)																
DRY CREEK NEAR MODESTO																
37 39 26	120 55 19	SE24 3S 9E	193	70.23	2/ 4/61	7710	88.04	12/23/55			MAR 41-DATE	MAR 41-DATE	1941		0.00	USCOS
Station located 0.1 mi. below Claus Road bridge, 4 mi. E of Modesto. Tributary to Tuolumne River. Prior to Mar. 1941, records available for a site 2.5 mi. downstream. (fs)																
EAST FORK CHOWCHILLA RIVER NEAR AHWAHANEE																
37 20 09	119 48 59	SE 7 7S 20E	306	5.26	12/ 1/60	3290E	9.88	4/ 3/58	3345	7973	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 1.1 mi. above mouth, 5.5 mi. W of Ahwahnee. (f)																
ELK BAYOU NEAR TULARE																
36 08 37	119 19 48	SW36 20S 24E							0	0	OCT 58-DATE	MAR 57-DATE	1959		0.00	LOCAL
Station located 1.8 mi. W of U. S. Highway 99, 5.8 mi. S of Tulare. Prior to Mar. 4, 1960, station located 700 ft. W of U. S. Highway 99, 4.5 mi. S of Tulare. Tributary to Tule River. Prior records, 1942 to July 1953, available at a site 1 mi. E of Elk Bayou Ave. 3.6 mi. below Old Highway 99 bridge. Recorder installed March 6, 1957. (f)																
FRIANT KERN CANAL DELIVERY TO PORTER SLOUGH																
36 05 00	119 04 50	SW20 21S 27E							897	0						
These flows are deliveries from Friant-Kern Canal into Porter Slough under contract agreement with the U.S.B.R. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approx. 4 mi. W of Porterville. Records furn. by U.S.B.R. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
FRIANT KERN CANAL DELIVERY TO TULE RIVER																
36 04 25	119 05 15	NW29 21S 27E							159	0						
These flows are deliveries from Friant-Kern Canal into Tule River under contract agreements with the U.S.B.R. Delivery is located on the Tule River approx. 4 mi. W of Porterville, 11.3 mi. below So. Fork Tule River. Records furn. by U.S.B.R. (f)																
KERN RIVER NEAR BAKERSFIELD																
35 26	118 57		529		8/26/61				185500	324084	93-DATE					
Also known as "Kern River at First Point". Station located 5 mi. NE of Bakersfield. Tabulated discharge is the computed regulated flow and is computed from noon to noon beginning at noon of day shown. Records furn. by Kern County Land Company. Drainage area is 2,420 sq. mi. (f)																
MARIPOSA CREEK NEAR CATHAY																
37 23 55	120 00 10	NE21 6S 18E	968	7.38	12/ 1/60	4530E	11.62	4/ 3/58	1577	7096	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located at highway bridge, 5.6 mi. E of Cathay School. Tributary to San Joaquin River. Drainage area is 65.7 sq. mi. (f)																
MARIPOSA CREEK BELOW MARIPOSA RESERVOIR																
37 16 52	120 09 45	NE36 7S 16E	15		5/17/61	6020		12/24/55	1169	6331	NOV 52-DATE	NOV 52-DATE	1952		337.63	USCOS
Station located 1.5 mi. below Mariposa Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Mariposa Reservoir. Records furn. by U.S.C.E. Drainage area is 108 sq. mi. (f)																
MAXWELL CREEK AT COULTERVILLE																
37 42 58	120 11 20	SE34 2S 16E	26	3.35	12/ 1/60	956 E	5.73	2/ 8/60	317	2833	DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located below Dogtown Road bridge, 0.5 mi. NE of Coulterville. Tributary to Merced River. Recorder installed December 10, 1958. (f)																
MERCED RIVER AT CRESSY																
37 25 28	120 39 47	SW 9 6S 12E	121	0.76	1/27/61	34400	22.67	12/ 4/50		57600	JUL 41-DEC 41 JUL 42-DATE	APR 41-DATE	1950		96.24	USCOS
Station located 150 ft. below McSwain Bridge, immediately N of Cressey. Prior to May 20, 1960, station located 250 ft. upstream. (fs)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.&R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
MERCED RIVER BELOW SNELLING																
37 30 06	120 27 03	NE17 5S 14E	96	5.96	5/20/61	604	7.88	2/10/60	23580	25700	NOV 58-DATE	NOV 58-DATE	1958		0.00	LOCAL
Station located 0.2 mi. below Merced-Snelling Highway bridge, 1.4 mi. SW of Snelling. Flow regulated by Exchequer power plant and Lake McClure. Prior to November, 1958, records available for a site 3.6 mi. downstream. (fs)																
MIAMI CREEK NEAR OAKHURST																
37 23 38	119 39 10	SE22 6S 21E	74	4.21	12/ 1/60	282E	5.46	2/ 8/60	1352	2784	DEC 59-DATE	DEC 59-DATE	1959		0.00	LOCAL
Station located 150 ft. below bridge, 4.5 mi. N of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.5 sq. mi. Recorder installed December 15, 1959. (f)																
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE																
37 22 56	119 50 11	NE25 6S 19E	64	3.68	12/1/60	2500E	8.30	4/ 3/58	659	2082	MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located 6 mi. W of Nipinnawasee, 10 mi. SE of Mariposa. Tributary to East Fork Chowchilla River. Drainage area is 12.3 sq. mi. (f)																
MILLERTON LAKE																
37 00 00	119 42 10	SW 5 11S 21E							647181	894537	OCT 41-DATE	OCT 41-DATE	1941		0.00	USCGS
Station located near center of Friant Dam on San Joaquin River, immediately above Cottonwood Creek, 0.9 mi. NE of Friant. Usable capacity, 503,000 ac.-ft. between elevations 375.4 and 578.0 ft. above mean sea level. Not available for release, 17,400 ac.-ft. Inflow to Friant Reservoir takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the dam site if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Records furn. by U.S.B.R. Drainage area is 1,673 sq. mi.																
NORTH FORK MERCED RIVER NEAR COULTERVILLE																
37 44 51	120 02 12	NW19 2S 18E	91	3.46	12/ 1/60	1090	5.38	2/ 8/60	861	3970	DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 40 ft. above Greeley Hill Road bridge, 9 mi. NE of Coulterville. (f)																
NORTH FORK TULE RIVER AT SPRINGVILLE																
36 08 23	118 48 16	SE35 20S 29E	50	5.16	12/ 2/60	2070	9.27	5/19/57	3226	10680	FEB 57-DATE	FEB 57-DATE	1957		3.75	LOCAL
Station located at State Highway 190 bridge, 0.8 mi. NE of Springville. Drainage area is 97.9 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

GAOING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	I/4 SEC. T. & R. M.O.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
ORESTIMBA CREEK NEAR CROWS LANDING																
37 24 59	121 00 45	SW 8 6S 9E	54	3.54	4/ 2/61				2841	3529	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 0.1 mi. below River Road Bridge, 3.7 mi. NE of Crows Landing. This includes drainage returned to San Joaquin River. Data insufficient to compute flow during periods of backwater from San Josquin River. (f)																
OWENS CREEK BELOW OWENS RESERVOIR																
37 18 28	120 11 35	SW23 7S 16E	5		2/10/61	590		12/24/55	154	7409	FEB 50-DATE	FEB 50-DATE	1950		338.22	USCOS
Station located 0.25 mi. below Owens Dam. Tributary to San Joaquin River via Maripoaa Creek and Bear Creek. Flow regulated by Owens Reservoir. Records furn. by U.S.C.E. Drainage area is 25.6 sq. mi. (f)																
PANOCHE DRAIN NEAR DOS PALOS																
36 55 25	120 41 19	NW 5 12S 12E	49	2.54	1/26/61		3.78	5/ 2/59		6662	FEB 59-DATE	FEB 59-DATE	1959		0.00	LOCAL
Station located midway between outside and main canals 0.5 mi. S of main canal levee road, 5.6 mi. SW of Dos Palos. This is drainage returned to San Joaquin River. Backwater from San Joaquin River at times affects stage-discharge relationship. (f)																
PORTER SLOUOH AT PORTERVILLE																
36 03 29	118 59 08	SE31 21S 28E	0	0					0	1218	JAN 42-DATE	JAN 42-DATE	1957		1.00	LOCAL
Station located at "B" Lane bridge, immediately E of Porterville. This is regulated diversion from Tule River. (f)																
PORTER SLOUGH NEAR PORTERVILLE																
36 04 00	119 03 08	NE28 21S 27E	15	1.62	11/26/60	364	5.14	4/ 3/58	128	611	JAN 57-DATE	JAN 57-DATE	1957		1.00	LOCAL
Station located at Newcomb Drive bridge, 2.0 mi. W of Porterville. Tributary to Tulare Lake Basin via Tule River. (f)																
SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																
37 26 52	121 00 44	NW 8 6S 9E		40.05	1/30/61							41-DATE		1959	0.00	USED
													1959		0.00	USGS
Station located at Crows Landing Road Bridge, 4.3 mi. NE of Crows Landing. (s)													1959		3.51	USED
SAN JOAQUIN RIVER NEAR DOS PALOS																
36 59 38	120 30 02					8200		6/ 5/52	6926	4929	OCT 40-DATE	OCT 40-DATE				
Station located 800 ft. below the head of Temple Slough, 6.5 mi. E of Dos Palos. Records furn. by U.S.B.R. Drainage area is approx. 5,630 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
$ - Irrigation season only
# - Flood aeason only
(f) - Record of flow published

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																
37 18 35	120 55 45		306	56.2	1/28/61	5910	71.14	4/ 6/58			FEB 37-DATE	APR 37-DATE	1944	1957	-3.73	USCGS
													1957	1959	-3.77	USCGS
													1959		0.00	USCGS
Station located 30 ft. below Fremont Ford Bridge, 4.5 mi. W of Stevinson, 6.7 mi. above the Merced River. During periods of high flow, some water bypasses station through Mud Slough. Maximum discharge of record is for period 1944 to date. Records furn. by U. S. G. S. Drainage area is approx. 8,090 sq. mi. (s)																
SAN JOAQUIN RIVER AT GRAYSON																
37 33 47	121 09 06	NW25 4S 7E				23900	45.15	3/ 8/41	186653	243758	JUL 28-DATE	JUL 28-DATE		1959	0.00	USED
													1960		0.00	USCGS
													1960		3.81	USED
Station located at Laird Slough Bridge, 5 mi. above the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in figures shown. Maximum discharge of record is for period 1939 to date. Records furn. by City of San Francisco. (fs)																
SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING																
37 38 10	121 12 54	NE32 3S 7E				38400	38.43	4/ 2/40	411206	501959	MAR 33-DATE	MAR 33-DATE		1959	0.00	USED
													1960		0.00	USCGS
													1960		3.51	USED
Station located 2.9 mi. above the Stanislaus River. Maximum discharge of record is for period 1939 to date. Records furn. by City of San Francisco. (f)																
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																
37 38 28	121 13 37	SW29 3S 7E		15.9	2/ 1/61		39.8	12/ 9/50			JAN 50-MAR 52	SEP 43-DATE	1943	1959	0.00	USED
													1959		0.00	USCGS
													1959		3.41	USED
Station located at State Highway 132 bridge, 13 mi. W of Modesto. (s)																
SAN JOAQUIN RIVER NEAR MENDOTA																
36 48 37	120 22 35	SW 7 13S 15E				8840		6/ 1/52	160920	165910	OCT 39-DATE	OCT 39-DATE				
Station located 2.5 mi. below Mendota Dam, 4 mi. N of Mendota. Records furn. by U.S.B.R. Drainage area is 4,310 sq. mi. (f)																
SAN JOAQUIN RIVER NEAR NEWMAN																
37 21 02	120 58 34	SW 3 7S 9E		50.0	1/30/61	33000	18.50	3/ 7/58			APR 12-DATE	APR 12-DATE	1912		47.24	USCGS
														1959	47.31	USCGS
													1959		0.00	USCGS
Station located at bridge on Hills Ferry Road, 300 ft. below the Merced River, 3.5 mi. NE of Newman. Records furn. by U.S.G.S. Drainage area is 9,990 sq. mi. (s)																
SAN JOAQUIN RIVER AT PATTERSON BRIDGE																
37 29 52	121 04 52	SW15 5S 8E		33.9	1/30/61							APR 38-DATE	1938	1959	0.00	USED
													1959		0.00	USCGS
													1959		3.53	USED
Station located at Patterson-Turlock Highway bridge, 3.1 mi. NE of Patterson. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

OAOINO STATION DESCRIPTION
CENTRAL VALLEY REOION
SAN JOAQUIN VALLEY BRANCH (continuad)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.&R. M.O.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
SAN JOAQUIN RIVER NEAR VERNALIS																
37 40 34	121 15 51		1610	12.6	1/29/61	79000	27.75	12/ 9/50	437200	543900	JUL 22-DEC 238 JAN 24-FEB 25	JUL 22-DEC 238 JAN 24-FEB 25	1931		8.4	USED
Station located 30 ft. above the Durham Ferry Highway bridge, 3 mi. below the Stanislaus River 3.4 mi. NE of Vernalis. Records furn. by U.S.O.S. Drainage area is approx. 14, 010 sq. mi. (fs)											JUN 25-OCT 288 MAY 29-DATE	JUN 25-OCT 288 MAY 29-DATE	1959	1959	5.06 0.00	USCOS USCOS
SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIOATION DISTRICT INTAKE																
3/ 36 07	121 10 51	SE10 4S 7E		21.0	1/22/61							DEC 50-DATE		1959	0.00	USED
Station located at intake gates for W. S. I. D. Canal, 2.6 mi. N of Oraybon. (s)													1959 1959		0.00 3.67	USCOS USED
SAN JOAQUIN RIVER AT WHITEHOUSE																
36 46 26	120 17 05	NE25 13S 15E								20221	01-DATE	01-DATE		1928	166.58	USED
Station located 13 mi. below the head of Gravelly Ford Canal Record furnished by Contracting Entitiaa (f)													1928 1952 1952	1952 1952	167.0 166.47 171.0	USED USED USED
SOUTH FORK KINOS RIVER BELOW EMPIRE WEIR 2																
36 10	119 50	20S 19E							0	0						
Station located 1.0 mi. SW of Stratford. Sp. Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furn. by Kings River Water Asaociation. (f)																
SOUTH SAN JOAQUIN IRRIOATION MAIN DRAIN AT FRENCH CAMP																
37 52 50	121 15 53	NW 1 1S 6E							10217	11732	MAR 55-DATE 8	MAR 55-DATE 8	1959		0.00	LOCAL
Station located above culvert, 200 ft. SE of French Camp Road, 0.3 mi. SE of French Camp. Supplementary atation located below culvert. This is drainage returned to San Joaquin River via French Camp Slough. Backwater from French Camp Slough at timea affects the stage discharge relationship. (f)																
STANISLAUS RIVER AT KOETITZ RANCH																
37 41 57	121 10 08	SW 2 3S 7E		27.56	2/1/61							MAR 50-DATE	1950 1951	1951	0.00 0.00	USED USCOS
Station located 0.6 mi. NW of Bacon and Oates Road Junction, 3.7 mi. SW of Ripon. (s)													1951		3.60	USED

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow publisheu

TABLE 16

GAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61	1960			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	WATER YR. IN AC.-FT.	CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
STANISLAUS RIVER NEAR MOUTH																
37 40 02	121 13 41	SW17 3S 7E	260	16.92	10/1/60						SEP 51-DATE	SEP 51-DATE	1951 1959	1959	1.11 0.00	USCGS USCGS
Station located 1.9 mi. above mouth, 7.7 mi. SW of Ripon. Backwater from San Joaquin River at times affects the stage-discharge relationship. Prior records available at other sites. (f)																
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE																
37 47 18	120 45 41	SW 4 2S 11E	246	2.45	1/ 9/61	52000	30.05	11/21/50	30020	29590	JUN 28-DEC 398 APR 40-DATE	JUN 28-DEC 398 APR 40-DATE			0.00	LOCAL
Station located at bridge, 5.0 mi. E of Oakdale. Flow regulated by reservoirs and power plants. (fs)																
STANISLAUS RIVER AT RIPON																
37 43 50	121 06 35	SE29 2S 8E	259	38.3	1/11/61	62500	63.25	12/24/55			APR 40-DATE	APR 40-DATE	1940		0.00	USGS
Station located 15 ft. below the Southern Pacific Railroad bridge, 1.0 mi. SE of Ripon. Records furn. by U.S.G.S. (s)																
STANISLAUS RIVER AT RIVER BANK																
37 44 31	120 56 21	SW24 2S 9E	244	74.73	1/16/61	85800	103.18	12/23/55	52230	58450	JUL 40-DATE	JUL 40-DATE	1940		0.00	USCGS
Station located at Burneyville Bridge, immediately N of Riverbank. (fs)																
STRIPED ROCK CREEK NEAR RAYMOND																
37 20 27	119 53 35	NE 9 7S 19E	29	2.87	11/12/60	1180E	8.87	4/ 3/58	224	1150	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 8.7 mi. N of Raymond, 11 mi. SE of Mariposa. Tributary to Chowchilla River. Drainage area is 17.1 sq. mi. (f)																
TULARE LAKE																
36 03 10	119 49 35						196.8	6/28/41				FEB 37-DATE	1937		0.00	USCGS
Station located 2.2 mi. SW of Chatom Ranch, 6 mi. SW of Corcoran on south end of El Rico bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 180 ft. U.S.G.S. datum. Records furn. by Tulare Lake Basin Water Storage District. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 16

OAGING STATION DESCRIPTION
CENTRAL VALLEY REGION
SAN JOAQUIN VALLEY BRANCH (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
TULE RIVER BELOW PORTERVILLE																
36 04 40	119 06 22	NW30 21S 27E				5170	8.17	5/19/57	0	5506	FEB 57-DATE	FEB 57-DATE	1957 1959	1959	0.00 -3.48	LOCAL LOCAL
Station located 330 ft. above Rockford Road bridge, 6.1 mi. W of Porterville. Flow at times includes releases from Friant-Kern Canal. (f)																
TUOLUMNE RIVER AT HICKMAN BRIDGE																
37 38 10	120 45 14	NW34 3S 11E	1030	74.54	12/ 7/60	59000	96.2	12/ 8/50	166800	194900	JUL 32-OCT 368 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	JUL 32-OCT 368 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	1932		0.00	USCGS
Station located at Hickman-Waterford Road bridge, immediately SE of Waterford. (fs)																
TUOLUMNE RIVER AT MODESTO																
37 37 38	120 59 20	SW33 3S 9E		42.0	12/8/60	57000	69.19	12/ 9/50			JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 97 MAR 40-DATE	1940		0.00	USCGS
Station located at U. S. Highway 99 bridge. Records furn. by U.S.G.S. (s)																
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE																
37 38 08	120 37 03	NW35 3S 12E	928	110.12	12/ 7/60	49800	128.2	12/ 8/50	130000	116800	JUL 28-OCT 368 JAN 37-FEB 38 JUN 38-DATE	JUL 28-OCT 368 JAN 37-FEB 38 JUN 38-DATE	1930 1940	1940	106.20 0.00	USCGS USCGS
Station located at highway bridge, 7.5 mi. E of Waterford. (fs)																
TUOLUMNE RIVER AT TUOLUMNE CITY																
37 36 12	121 07 50	NW 7 4S 8E		25.4	1/7/61				262046	267486	30-DATE	30-DATE	 1960 1960	1959	0.00 0.00 3.50	USED USCGS USED
Station located at highway bridge, 3.35 mi. above mouth. Backwater at times affects the stage-discharge relationship. Records furn. by City of San Francisco. (fs)																
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA																
37 25 14	119 52 25	SE10 6S 19E	21	3.37	12/ 2/60	3590E	8.67	4/ 3/58	606	3603	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 15 ft. below Indian Peak Road bridge, 6.7 mi. SE of Mariposa. Drainage area is 33.7 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 17

GAGING STATION
ADDITIONS and DISCONTINUATIONS

CENTRAL VALLEY REGION

ADDITIONAL STATIONS

Cherokee Canal near Richvale
Deer Creek at Terra Bella Irrigation District
Dry Creek near Ione
Indian Creek near Boulder Creek Guard Station
* Lake Berryessa
Lassen Creek near Willow Ranch
North Fork Davis Creek near Davis Creek
Pope Creek near Pope Valley
Spring Creek near Keswick
Wadsworth Canal near Sutter (Upper)
Wadsworth Canal near Sutter (Lower)
Willow Creek near Willow Ranch

* Installed prior to 1961. Records not published in previous reports.

DISCONTINUED STATIONS

Bear River near Colfax
Del Puerto Creek near Grayson
Drain at Head of Firebaugh Wasteway near Firebaugh
Goose Lake
Merced River near Livingston
Newman Wasteway near Newman
Pit River at Pittville
Sacramento River at Clarksburg
Sacramento River opposite Sacramento Weir
Spring Creek near Keswick
Tuolumne River at La Grange Bridge
Westley Wasteway near Grayson

PUBLICATION DISCONTINUED

Del Puerto Creek near Grayson
Drain at Head of Firebaugh Wasteway near Firebaugh
Merced River near Livingston
Newman Wasteway near Newman
Pit River near Pittville
Tuolumne River at La Grange Bridge
Westley Wasteway near Grayson

PUBLISHED DATA FROM PRIOR YEARS

Dry Creek near Ione - 1960
Reclamation District 1660 to Sutter Bypass - 1955, 1956, 1957, 1958, 1959
Reclamation District 1660 to Tisdale Bypass - 1955, 1956, 1957, 1958, 195
Scott Creek near Lakeport - 1960

DATA REVISED

Scott Creek at Upper Lake - 1960

TABLE 18

DAILY MEAN DISCHARGE
SACRAMENTO RIVER NEAR MOUNT SHASTA

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	57	1440• E	133	670	195	395	618	661	108	52	47
2	47	59	604	132	663	195	590	570	832	101	51	45
3	48	61	291	125	562	188	779	531	757	92	51	47
4	47	59	204	123•	426	181	782	495	742	87	50	47
5	54	63	167	123	361	193	630	442	691	89	55	46•
6	143	66	148	117	351	188	558	440	610	87	61	46
7	92	68	140	118	328	177	498	405	533	86	63	44
8	80	65	133	119	322•	190	464	448	487	82	59	44
9	69	66•	131	126	601	190•	476	726	436	78	56	44
10	67	67	131	126	1700 E	186	452	979	393	76	51	45
11	64	72	131	125	2260 E	211	483	772	407	72	52	44
12	63	102	130•	124	1030	195	539	612	374	73	50	44
13	60	98	132	121	707	193	469	549	368	86	50	44
14	59	84	131	125	556	330	439	570	373	80	47	44
15	59	78	155	130	752	648	442	631	365•	75	48	45
16	59	83	264	126	549	445	539	689•	337	71	49•	60
17	60	92	412	126	440	390	619	782	306	68	48	66
18	61	119	616	125	362	338	549	900	272	68	48	63
19	59	86	509	124	320	335	439	1020	241	63•	50	59
20	61	74	328	128	287•	306	383	1020	224	60	52	56
21	61	73	268	128	272	285	407	910	205	57	49	55
22	58	69	234	126	263	318	390	867	185	58	47	55
23	56	85	218	152	246	322	327	779	172	58	46	54
24	56	185	203	154	233	322	297	706	162	60	44	57
25	57	683	194	146	224	295	279	706	150	55	42	55
26	59•	215	183	170	211	293	292•	700	140	52	44	54
27	60	134	176	191	203	279	317	600	128	52	44	53•
28	62	110	165	182	194	251	370	565	123	52	45	54
29	59	97	158	200		244	494	541	118	51	48	55
30	59	174	150	302		267	562	540	113	50	44	53
31	59		145	1260 E		311		521		50	46	
Mean	62.7	112	268	178	539	273	475	666	364	70.9	49.7	50.8
Max. Mean	143	683	1440	1260	2260	648	782	1020	832	108	63	66
Min. Mean	47	57	130	117	194	177	279	405	113	50	42	44
Ac.-Ft.	3858	6633	16450	10920	29940	16780	28280	40930	21630	4358	3059	3025

E – Estimated NR – No Record

Total Discharge in Acre-Feet 185900

• Discharge measurement (or observation of no flow) made on this day.

TABLE 19

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR WILLOW RANCH

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										0.6	0.1	0.1
2										0.6	0.1	0.2
3										0.6	0.1	0.3
4										0.6	0.1	0.2
5										0.5	0.1	0.2
6										0.4•	0.3	0.2
7										0.4	0.1	0.2
8										0.4	0.2	0.2
9										0.4	0.2	0.2
10										0.3	0.1	0.2
11										0.3	0.1	0.3
12										0.3	0.1	0.4
13										0.2	0.1	0.2
14										0.2	0.1	0.3
15										0.2	0.1	0.2
16									1.8• E	0.2	0	0.3
17									1.7	0.2	0.1	0.3
18									1.5	0.1	0	0.6
19									0.8	0.2•	0.1	0.3
20									0.8	0.1	0.2	0.2
21									0.8	0.1	0.1	0.2
22									1.0	0.1	0.2	0.2
23									0.7	0.1	0.2	0.1
24									0.8	0.1	0.1	0.1
25									0.7	0.1	0.2	0.1
26									0.7	0.1	0.1	0.2
27									0.5	0.1	0.1	0.1
28									0.7	0.1	0.2	0.1
29									0.7	0.1	0.2	0.1
30									0.7	0.1	0.2	0.3
31										0.1	0.2	
Mean										0.3	0.1	0.2
Max. Mean										0.6	0.3	0.6
Min. Mean										0.1	0	0.1
Ac.-Ft.										16	8	13

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 20

DAILY MEAN DISCHARGE
LASSEN CREEK NEAR WILLOW RANCH

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										4.4 E	1.6	0.7
2										4.3	1.8	0.8
3										4.3	1.4*	1.0
4										4.2	1.3	0.9
5										4.3	1.7	0.9*
6										4.0*	2.0	0.9
7										3.7	1.9	0.9
8										3.4	1.5	1.0
9										3.5	1.3	0.8
10										3.6	1.2	0.9
11										3.4	1.2	0.7
12										3.2	1.8	0.8
13										3.0 E	1.4	0.8
14										2.8 E	1.4	0.8
15										2.8 E	1.3	0.8
16										3.2 E	1.0*	1.1
17										3.2 E	1.0	1.1
18										3.0 E	1.0	1.7
19										2.7* E	1.0	1.2
20										2.7	1.0	1.1
21									6.5* E	2.8	1.0	1.1
22									5.6 E	2.7	1.2	1.1
23									6.1 E	2.3	0.8	1.0
24									5.5 E	2.3	0.7	1.0
25									4.9 E	2.3	1.0	0.9
26									4.9 E	2.3	1.0	0.8
27									4.6 E	2.2	1.0	0.9
28									4.6 E	2.1	1.1	0.8
29									4.7 E	2.1	1.0	0.7
30									4.7 E	1.7	0.9	0.8
31										1.9	0.9	
Mean										3.0	1.2	0.9
Max. Mean										4.4	2.0	1.7
Min. Mean										1.7	0.7	0.7
Ac.-Ft.										187	76	56

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 21

DAILY MEAN DISCHARGE
NORTH FORK DAVIS CREEK NEAR DAVIS CREEK

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										3.8	2.7	1.8
2										3.8	2.6	2.1
3										4.0	2.4*	2.2
4										3.5	2.4	2.0
5										3.6	2.9	1.9*
6										3.7	2.8	1.9
7										3.5*	2.7	2.0
8										3.4	2.7	1.9
9										3.4	2.4	1.9
10										3.1	2.0	2.0
11										3.0	2.3	1.8
12										3.1	2.4	1.7
13										3.6	2.2	1.6
14										3.4	2.1	1.7
15										3.1	2.2	1.9
16										3.0	2.1	1.9
17										3.0	1.9	1.9
18										3.2	2.0	2.2
19										3.0	2.1	1.9
20										2.9*	2.3	2.0
21										2.9	2.1	1.9
22									4.9* E	2.8	1.9	1.8
23									5.1 E	2.7	1.8	1.5
24									4.6	2.7	1.7	1.7
25									4.3	2.7	2.2	1.6
26									4.3	2.6	1.9	1.7
27									4.3	2.6	1.9	1.6
28									4.2	2.6	1.8	1.6
29									4.3	2.6	1.8	1.7
30									4.2	2.6	1.8	1.6
31										2.5	1.7	
Mean										3.1	2.2	1.8
Max. Mean										4.0	2.9	2.2
Min. Mean										2.5	1.7	1.5
Ac.-Ft										191	134	109

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 22

DAILY MEAN DISCHARGE
PINE CREEK NEAR ALTURAS

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	8.0	17	6.7 E	7.7	7.2	13	20	42	18	9.4	7.7
2	7.4	8.1	18	7.0 E	16	7.0	14	18	37	17	9.2	8.0
3	7.4	8.8	15	8.6 E	21	6.8 E	16	20	34	17	8.7*	7.5
4	7.4	7.2	15 E	9.3 E	12	8.1	16	19	32	16	8.7	7.5
5	7.4	9.7	14 E	9.3 E	9.4	8.1	14	18	32	15	9.4	7.2*
6	7.4	11	13 E	10	8.7	7.4	13	18	33*	14	9.6	7.2
7	8.5	13	13 E	11	8.5	8.3	13	17	35	13*	9.5	7.2
8	9.6	11	12 E	9.6	8.7	7.3	13	17	35	13	9.1	7.0
9	9.0	8.8	12 E	8.3	11	7.4	13	19	35	12	8.8	7.1
10	7.7	9.3	11 E	7.2	12	7.2	13	21	38	12	7.3	7.0
11	7.4	12	9.6 E	6.2 E	12	7.3	14	20	40	12	11	6.8
12	6.7	10	8.6* E	7.2 E	12	6.9	15	19	38	12	11	6.2
13	8.0	9.9	8.3 E	6.5 E	13	8.3	14	18	37	12	7.6	6.2
14	7.4	11	7.6	5.9	32	7.9	14	19	36	12	7.5	6.1
15	7.4	13	6.7	5.9	28	7.9	14	22	35	11	7.3	6.3
16	6.7	13	7.2	6.1 E	19	7.7	15	23*	35	11	6.7	7.1
17	6.7	13	8.8	6.1 E	11	8.2	18	25	35	11	6.5	7.4
18	6.7	16	8.2	6.7 E	7.0 E	7.9	18	25	33	11	6.3	7.9
19	6.4	12	6.4	6.7 E	8.9	7.8	16	28	33	11	7.2	6.8
20	6.1	11	6.0	6.4 E	8.0*	8.6	15	30	32	11	7.3	6.7
21	5.9	11	5.6	6.4 E	9.8	8.7	14	34	30	11	7.4	6.5
22	5.6	9.5*	5.4	6.7 E	9.8	9.3	14	38	30	11	7.2	6.6
23	5.3	11	5.8*	7.7 E	8.0 E	14	13	39	29	9.7	6.6	6.5
24	5.6	12	4.2 E	7.4	8.5	18	14	41	27	10	6.8	6.2
25	6.1	12	6.1 E	7.0	7.7	27	13	42	26	10	6.6	6.1
26	7.6*	13	5.6	7.3*	5.5 E	27	13*	41	24	9.8	6.6	6.3
27	7.6	8.7	5.9 E	6.7	7.1 E	21	14	41	22	9.6	6.8	6.2
28	7.7	25	5.9 E	4.7 E	7.5	16	16	41	21	9.3	7.2	6.1
29	7.7	23	6.4 E	7.8 E		14	17	41	20	9.5	7.2	6.3
30	8.6	13	6.4 E	7.7		11*	18	41	19	9.0	6.7	6.0
31	8.6		6.4 E	9.6		12		41		9.5	7.8	
Mean	7.3	11.8	9.1	7.4	11.8	10.7	14.6	27.6	31.8	11.9	7.9	6.8
Max. Mean	9.6	25	18	11	32	27	18	42	42	18	11	8.0
Min. Mean	5.3	7.2	4.2	4.7	5.5	6.8	13	17	19	9.0	6.3	6.0
Ac.-Ft.	447	702	558	456	654	657	867	1698	1894	733	486	404

E - Estimated NR - No Record

Total Discharge in Acre-Feet 9556

* Discharge measurement (or observation of no flow) made on this day.

TABLE 23

DAILY MEAN DISCHARGE
SOUTH FORK PIT RIVER NEAR JESS VALLEY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	22	18 E	23 E	24	10	11	55	89	15	6.6	6.7
2	7.7	21	19 E	23 E	31	8.9	15	52	65	13	7.8	6.4
3	8.1	21	20 E	23 E	30	8.7	25	52	82	14	7.1*	6.8
4	8.7	19	20 E	22 E	25	7.1	45	55	84	15	6.5	7.0
5	9.3	22	20 E	23 E	23	6.4	43	58	87	14	6.6	6.9*
6	10	25	22 E	23 E	24	7.3	42	95	79*	14	7.3	6.5
7	12	32	22 E	23 E	27	7.3	42	87	77	14*	8.9	6.0
8	13	30	23 E	23 E	24	6.6	39	72	68	16	10	6.1
9	11	26	24 E	22 E	17	6.0	43	74	63	15	9.6	6.2
10	12	26	25 E	22 E	7.9	7.6	42	79	56	13	8.3	4.7
11	15	34	25 E	22 E	6.0	8.5	40	85	55	12	11	4.1
12	19	31	26* E	22 E	4.6	8.4	51	81	60	12	14	5.4
13	18	27	26 E	22 E	4.4	13	41	73	53	13	12	5.6
14	18	27	27 E	22 E	9.8	21	35	74	47	13	8.5	4.9
15	19	27	27 E	22 E	12	21*	40	79	44	12	7.6	5.1
16	17	20	27 E	23 E	8.7	20	56	78*	41	11	7.2	5.8
17	17	14	28	22 E	4.7	20	80	79	38	10	7.1	6.0
18	18	24	28	21 E	4.1	19	74	84	36	9.5	6.7	8.0
19	20	13	26	21 E	4.4	19	57	89	33	8.9	7.4	8.1
20	20	11	26	21 E	5.6*	20	48	89	26	9.1	8.0	7.4
21	20	11	25	21 E	5.7	20	45	95	21	9.1	7.2	7.3
22	20	14*	26*	21 E	4.8	22	41	96	21	8.8	6.6	6.7
23	20	17	25	20	5.0 E	23	39	93	21	8.9	5.4	6.8
24	20	17	25	20	0.6 E	18	41	87	19	9.2	4.8	7.0
25	21	15	25	19*	0 E	18	34	86	18	9.5	5.2	8.4
26	23*	15 E	24	21	0 E	18	32*	85	19	10	6.0	11
27	23	16 E	22 E	34	0.8 E	15	35	79	18	8.9	6.7	12
28	23	16 E	23 E	28	8.2	18	39	77	17	8.1	6.3	9.6
29	22	17 E	23 E	25		13	43	87	16	5.2	6.4	9.4
30	22	17 E	24 E	23		8.2*	48	102	15	4.4	6.2	9.6
31	21		23 E	27		12		94		4.4	6.4	
Mean	16.6	20.9	24.0	22.7	11.5	13.9	42.2	79.7	45.6	11.0	7.6	7.1
Max. Mean	23	34	28	34	31	23	80	102	89	16	14	12
Min. Mean	7.2	11	18	19	0.6	6.0	11	52	15	4.4	4.8	4.1
Ac.-Ft.	1021	1244	1476	1396	639	855	2511	4901	2713	674	467	420

E - Estimated NR - No Record

Total Discharge in Acre-Feet 18320

* Discharge measurement (or observation of no flow) made on this day.

TABLE 24

DAILY MEAN DISCHARGE
PIT RIVER BELOW ALTURAS

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	36	79	56	90	52	86		NR	NR	75	NR
2	21	34	100	53	107	53	92		NR	NR	75•	NR
3	18	33	88	55	248	50	104		NR	NR	88	NR
4	15	34	79	46	123	48	115		NR	NR	90	57
5	15	35	52	44	88	50	79		NR	NR	91	56
6	13	37	42	49	74	54	52		NR	NR	92	56•
7	20	46	44	52	74	49	60		87	NR	92	56
8	22	76	45	57	63	48	58		75	NR	NR	24
9	20	55	37	65	102	45	53		77	NR	NR	16
10	19	51	34	70	141	31	48		87	NR	NR	16
11	24	51	36	63	98	45	48		106	51	NR	17
12	31	62	40•	60	115	51	61	N	105	62	NR	18
13	38	72	42	57	113	42	55	O	94	63	NR	19
14	54	68	45	55	137	41	43		105	58	44	18
15	62	78	61	58	139	35	39		73	52	38	19
16	56	69	83	54	118	54	26	R	59	50	23•	15
17	54	81	58	50	90	52	7.9	E	50	50	17	15
18	46	90	159	42	72	50	0	C	NR	49	15	16
19	41	83	133	45	68	49	2.2	O	NR	50	11	17
20	38	71	77	46	62•	50	25	R D	NR	NR•	8.2	18
21	35	56	63	46	60	49	34		NR	NR	18	16
22	37	45•	57	45	61	51	34		NR	NR	31	18
23	36	42	53•	44	56	47	NR		NR	NR	37	18
24	33	44	51	43	54	73	NR		NR	NR	38	18
25	29	31	54	37	51	182	NR		NR	NR	44	20
26	22•	40	65	33•	55	330	NR		NR	NR	43	22
27	20	52	62	32	55	298	NR		NR	NR	44	23
28	23	36	50	25	52	157	NR		NR	NR	NR	25
29	31	37	61	21		104 E	NR		NR	NR	NR	22
30	34	55	63	23		88• E	NR		NR	NR	NR	14
31	35		58	74		87				NR	NR	
Mean	31.1	53.3	63.6	48.4	91.6	77.9						
Max. Mean	62	90	159	74	248	330						
Min. Mean	13	31	34	21	51	31						
Ac.-Ft.	1914	3174	3909	2975	5090	4790						

E - Estimated NR - No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 25

DAILY MEAN DISCHARGE
TURNER CREEK NEAR CANBY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.5	50	1.1 E	30	7.7	19	1.5	2.1	0.1 E	0.1	0.1
2	0.3	0.5	39	1.4 E	61	7.4	16	1.4	1.6	0.1 E	0.1	0.1
3	0.3	0.6	17	1.5	71	5.4 E	15	1.1	1.1	0.1 E	0.1	0.2
4	0.2	0.5	8.6	2.6 E	35	5.2	13	1.1	0.9	0.1 E	0.1	0.1
5	0.3	0.5	3.5	1.3 E	19	5.4	11	1.1	0.8	0.1 E	0.1	0.1
6	0.4	0.6	1.5	2.9 E	12	6.1	9.7	2.4	0.7	0.2 E	0.3	0.1•
7	0.3	0.9	1.0	3.3 E	9.1	5.9 E	8.2	2.6	0.7	0.2 E	0.4	0.1
8	0.4	0.6	0.7•	2.3 E	7.5	5.9	7.0	1.8	0.6	0.2 E	0.5	0.1
9	0.3	0.5	0.7	3.9	42	12	6.0	1.3•	0.5	0.2 E	0.2	0.1
10	0.5	0.5	0.8	2.2	37	32	5.4	1.3	0.5	0.1 E	0.1•	0.1
11	0.4	0.7•	0.9	1.5•	36	41	4.7•	2.2	0.6	0.1 E	0.1	0.1
12	0.5	0.6	0.9	1.5	45	34	5.8	3.0	0.7	0.1• E	0.2	0.1
13	0.4	0.8	0.9	1.3	41	25•	5.1	2.6	0.5	0.1	0.1	0.1
14	0.5	0.8	0.9	1.3	81•	19	4.0	1.8	0.4•	0.1	0.1	0.1
15	0.4	0.7	0.9	1.2 E	115	19	3.3	1.4	0.4	0.1	0.1	0.1
16	0.4	0.8	1.1	1.1 E	79	16	3.1	1.1	0.3	0.1	0.1	0.1
17	0.4	0.9	16	1.1 E	38	23	2.6	1.0	0.3	0	0.1	0.2
18	0.4•	1.2	60	0.8 E	21 E	26	2.4	0.9	0.3	0.1	0.1	0.2
19	0.4	0.8	53	0.8 E	18	18	2.2	0.8	0.3	0	0.1	0.2
20	0.5	0.6	27	0.7 E	17	19	2.1	0.8	0.2	0.1	0.1	0.2
21	0.4	0.6	16	0.8 E	14	15	2.1	0.8	0.2	0.1	0.1	0.2
22	0.4	0.6	9.8	0.8 E	12	13	2.6	0.7	0.2	0.1	0.1	0.2
23	0.3	0.7	5.7 E	1.0	9.0 E	14	3.7	0.7	0.2	0.1	0.1	0.2
24	0.4	0.7	4.6 E	1.0• E	8.5	34	3.9	0.6	0.2	0.1	0.1	0.2
25	0.4	1.6	3.8 E	1.0	8.5	57	2.7	0.6	0.2	0.1	0.1	0.2
26	0.5	3.0	2.6 E	1.2	8.5 E	72	2.1	0.6	0.2	0.1	0.1	0.2
27	0.5	1.1	2.0 E	1.2	7.6	71	1.7	0.6	0.1	0.1	0.2	0.2
28	0.4	1.0	1.7	1.0 E	7.7	55	1.5	0.5	0.2 E	0.1	0.2	0.2
29	0.4	1.0	1.3	1.5		48	1.6	0.5	0.2 E	0.1	0.3	0.2
30	0.4	1.2	1.3	2.5		31	1.6	1.0	0.2 E	0.1	0.2	0.3
31	0.4		1.3	80		23		1.4		0.1	0.1	
Mean	0.4	0.8	10.8	4.1	31.8	24.7	5.6	1.3	0.5	0.1	0.2	0.2
Max Mean	0.5	3.0	60	80	115	72	19	3.0	2.1	0.2	0.5	0.3
Min. Mean	0.2	0.5	0.7	0.7	7.5	5.2	1.5	0.5	0.1	0	0.1	0.1
Ac.-Ft.	24	50	663	250	1766	1519	335	78	31	7	9	9

E - Estimated NR - No Record

Total Discharge in Acre-Feet 4741

• Discharge measurement (or observation of no flow) made on this day.

TABLE 26

DAILY MEAN DISCHARGE
RUSH CREEK NEAR ADIN

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	3.2	19	3.6	9.2	8.4	21	5.2	4.7	1.7	2.3	1.7
2	1.9	3.3	11	3.8	13	8.7	20	5.0	4.5	1.7	2.3	1.7
3	1.9	3.7	6.9	3.8	11	8.0	19	4.7	3.8	1.6	2.3	1.7
4	1.9	3.6	5.6	3.7	8.1	8.1	18	4.3	3.6	1.7	2.2	1.7
5	2.2	3.3	4.9	3.5	6.9	7.8	17	4.6	3.8	1.5	2.4	1.7
6	2.0	3.5	4.4	3.6	7.2	7.7	15	5.5	3.9	1.7	2.4	1.7•
7	2.3	4.3	4.6	3.9	7.1	7.7	13	4.8	3.8	1.6	2.4	1.6
8	2.1	3.7	4.6•	4.3	6.9	7.7	13	4.8	4.1	1.6	2.5	1.6
9	2.1	3.5	4.4	3.9	16	11	11	4.7	3.8	1.5	2.4	1.6
10	2.1	3.6	4.3	3.8	13	12	11	4.7	3.8	1.5	2.2•	1.6
11	2.3	4.6•	4.2	4.0•	13	13	9.9•	5.2	4.1	1.4	2.3	1.7
12	2.0	4.0	4.1	4.0	15	11	10	4.7	3.9	1.5•	2.4	1.7
13	1.9	4.1	4.1	3.9	13	12•	8.1	4.6	3.6	1.6	1.9	1.7
14	1.8	4.1	3.9	3.8	25•	13	7.2	4.5	2.6•	1.5	1.4	1.9
15	1.8	3.8	4.1	3.8	27	13	6.6	4.4•	1.9	2.0	1.3	1.8
16	1.9	4.1	4.4	3.9	21	12	6.2	4.1	1.7	2.3	1.4	1.9
17	1.9	4.2	8.7	3.8	15	12	6.6	4.0	1.9	2.3	1.3	2.1
18	2.2•	5.7	12	3.6	13	12	6.5	4.3	1.7	2.3	1.3	2.1
19	2.5	4.3	8.9	3.6	15	12	6.1	4.2	1.7	2.2	1.4	2.0
20	2.4	3.9	6.8	4.0	18	13	5.6	4.2	1.7	2.3	1.4	2.0
21	2.5	4.1	6.4	3.7	19	12	5.5	4.4	1.9	2.2	1.4	2.2
22	2.4	4.0	5.3	3.9	18	12	5.5	4.3	1.8	2.2	1.4	2.0
23	2.2	4.2	4.8	3.9	13	15	5.7	4.2	1.6	2.3	1.4	2.0
24	2.6	4.1	4.7	4.0	12	24	5.2	4.1	1.5	2.3	1.5	2.0
25	2.3	4.9	4.6	3.9	12	31	4.8	4.1	1.7	2.2	1.4	2.0
26	3.0	4.9	4.3	3.9	10	29	4.7	3.9	1.6	2.2	1.5	2.0
27	3.0	4.5	4.1	4.2	9.0	30	4.6	3.9	1.7	2.1	1.5	2.1
28	3.1	4.4	3.8	4.2	8.5	26	4.5	3.5	1.6	2.2	1.5	2.1
29	3.1	4.4	3.9	4.7		25	4.9	3.3	1.8	2.2	1.6	2.1
30	2.9	5.2	3.9	4.5		23	5.0	3.9	1.9	2.2	1.5	2.2
31	3.2		3.8	19		22		4.4		2.3	1.7	
Mean	2.3	4.1	5.8	4.4	13.4	14.8	9.4	4.4	2.7	1.9	1.8	1.9
Max. Mean	3.2	5.7	19	19	27	31	21	5.5	4.7	2.3	2.5	2.2
Min. Mean	1.8	3.2	3.8	3.5	6.9	7.7	4.5	3.3	1.5	1.4	1.3	1.6
Ac-Ft.	142	244	358	270	744	911	558	271	162	119	111	111

E - Estimated NR - No Record

Total Discharge in Acre-Feet 4001

• Discharge measurement (or observation of no flow) made on this day.

TABLE 27

DAILY MEAN DISCHARGE
ASH CREEK AT ADIN

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	23	200	26	60	41	81	22	36	8.9	26	8.2
2	20	23	99	28	73	40	77	27	29	10	23	11
3	19	26	57	29	84	38	75	26	22	11	23	11
4	18	26	42	29	48	39	72	26	21	12	24	12
5	22	25	33	29	38	44	68	28	16	8.6	22	12
6	22	34	28	31	36	46	64	41	14	7.4	24	14•
7	25	48	29	30	36	47	58	47	15	9.4	27	14
8	25	30	30•	31	37	48	52	39	14	9.8	28	14
9	23	28	30	34	102	54	55	29•	14	10	27	14
10	24	29	30	34	76	62	54	26	13	11	26•	16
11	26	33•	30	31•	84	62	53•	37	14	11	24	17
12	26	35	29	31	122	52	64	43	16	12•	23	16
13	26	34	31	30	102	50•	49	37	15	15	24	17
14	24	36	31	29	224•	53	43	32	14•	15	24	20
15	24	40	32	30	215•	56	49	29	13	15	22	19
16	23	37	33	29	137	53	52	22	13	15	18	16
17	24	34	49	28	92	54	54	19	12	15	13	15
18	22•	45	62	26	73	53	50	19	11	18	14	19
19	20	34	48	26	80	50	45	15	10	25	12	20
20	20	30	39	26	91	64	41	12	10	26	7.4	22
21	19	29	36	25	88	54	43	15	8.9	26	10	22
22	20	27	35	26	76	52	43	21	7.4	25	11	21
23	21	27	33	26	58	67	46	16	7.5	24	11	20
24	21	28	32	26	56	108	41	15	8.0	25	12•	18
25	22	32	34	25	55	163	36	16	9.2	23	14	21
26	25	37	34	25	47	154	38	15	11	22	12	21
27	26	37	33	27	45	159	26	16	10	24	12	21
28	25	35	31	24	42	124	26	9.6	6.9	25	13	20
29	25	35	30	25		113	24	11	7.5	26	12	21
30	24	56	31	27		98	21	28	7.6	25	11	21
31	24		31	85		89		41		25	6.5	
Mean	22.7	33.1	42.6	29.9	81.3	70.5	50.0	25.1	13.5	17.3	17.9	17.1
Max. Mean	26	56	200	85	224	163	81	47	36	26	28	22
Min. Mean	18	23	28	24	36	38	21	9.6	6.9	7.4	6.5	8.2
Ac-Ft.	1398	1970	2622	1841	4516	4338	2975	1546	805	1061	1103	1018

E - Estimated NR - No Record

Total Discharge in Acre-Feet 25190

• Discharge measurement (or observation of no flow) made on this day.

TABLE 28

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR ADIN

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4	2.6	0.8	0.8	1.0	2.1	1.0	1.0	0	0.5	0.3
2	0.3	0.4	1.2	0.8	1.0	1.1	2.0	1.1	1.1	0	0.4	0.2
3	0.4	0.5	1.1	0.9	1.0	1.1	1.8	0.8	0.8	0.1	0.4	0.2
4	0.3	0.6	0.9	0.8	0.8	1.2	1.5	0.6	0.7	0.4	0.4	0.2
5	0.3	0.3	0.9	0.9	0.7	1.4	0.5	0.8	0.8	0.5	0.5	0.3
6	0.3	0.7	0.7	0.9	0.7	1.4	0.6	1.1	0.6	0.7	0.5	0.1•
7	0.3	1.0	0.7	0.8	0.7	1.2	0.5	0.9	0.4	0.7	0.6	0.1
8	0.7	0.7	0.7•	0.9	0.7	1.2	0.5	0.6	0.5	0.8	0.5	0.1
9	0.7	0.8	0.8	0.8	1.1	1.1	0.7	0.4	0.4	0.6	0.5	0.1
10	0.6	0.7	0.7	0.7	0.9	1.2	0.6	0.8	0.4	0.5	0.5•	0.1
11	0.7	1.1	0.7	0.8•	1.1	1.2	0.6•	1.0•	0.4	0.5	0.5	0.1
12	0.6	0.7	0.7	0.8	1.1	1.0	0.8	0.7	0.5	0.4•	0.6	0.1
13	0.6	0.8	0.9	0.8	1.3	1.1•	1.0	0.3	0.6	0.6	0.6	0.1
14	0.7	0.8	0.6	0.8	2.0	1.2	1.0	0.8	0.2•	0.6	0.6	0.1
15	0.6	0.7•	0.8	0.7	2.7•	1.2	0.8	0.5	0.2	0.7	0.5	0.1
16	0.5	0.9	1.0	0.8	2.3	1.2	0.8	0.1	0.1	0.6	0.2	0.3
17	0.7	0.8	1.1	0.7	1.5	1.3	0.7	0.2	0.1	0.6	0.2	0.8
18	0.6•	1.1	1.0	0.7	1.4	1.1	0.9	0.2	0.1	0.6	0.1	0.6
19	0.7	0.8	1.0	0.6	1.5	1.1	0.9	0.2	0.1	0.4	0.0	0.6
20	0.6	0.6	0.9	0.7	1.7	1.3	0.9	0.4	0.1	0.4	0.1	0.5
21	0.3	0.6	0.8	0.7	1.5	1.3	0.9	0.4	0.1	0.5	0.1	0.5
22	0.4	0.7	1.0	0.6	1.3	1.2	1.1	0.4	0.1	0.4	0.1	0.5
23	0.4	0.7	0.8	0.6	1.1	1.6	1.2	0.4	0.1	0.4	0.1	0.5
24	0.4	0.7	0.8	0.7	1.1	1.6	1.0	0.4	0.1	0.5	0.1	0.5
25	0.4	0.8	0.8	0.9	1.3	2.1	0.9	0.4	0	0.5	0.1	0.5
26	0.4	1.1	0.9	0.9	1.1	2.6	0.7	0.4	0	0.4	0.1	0.6
27	0.5	1.0	0.8	0.7	1.0	3.6	0.7	0.4	0	0.6	0.2	0.6
28	0.4	0.9	0.8	0.7	1.0	3.1	0.8	0.4	0	0.6	0.4	0.5
29	0.4	1.0	0.7	0.5		3.1	0.7	0.3	0	0.7	0.4	0.6
30	0.5	1.2	0.8	0.7		2.8	0.7	0.8	0	0.6	0.5	0.6
31	0.5		0.8	1.0		2.4		0.9		0.6	0.4	
Mean	0.5	0.8	0.9	0.8	1.2	1.6	0.9	0.6	0.3	0.5	0.3	0.3
Max. Mean	0.7	1.2	2.6	1.0	2.7	3.6	2.1	1.1	1.1	0.8	0.6	• 0.8
Min. Mean	0.2	0.3	0.6	0.5	0.7	1.0	0.5	0.1	0	0	0	0.1
Ac.-Ft.	30	46	56	47	68	97	55	36	18	31	21	21

E - Estimated NR - No Record

Total Discharge in Acre-Feet 526

• Discharge measurement (or observation of no flow) made on this day.

TABLE 29

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR ADIN

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	5.5	7.7	4.7	5.4	5.6	4.6	5.6	6.3	4.4	4.2	4.5
2	5.0	4.9	6.2	4.7	6.2	5.5	4.9	5.5	6.0	4.3	4.1	4.5
3	5.2	5.5	5.8	4.7	6.3	5.7	5.5	5.6	5.5	4.3	4.2	4.4
4	5.1	5.1	5.7	4.8	5.6	5.5	5.3	5.7	5.7	4.3	4.1	4.4
5	5.1	5.0	5.5	4.8	5.7	6.1	5.6	5.8	5.5	4.3	4.2	4.4
6	5.2	5.2	5.5	4.8	5.7	5.8	5.7	6.3	5.2	4.6	4.5	4.3•
7	5.2	5.5	5.6	4.6	5.8	5.8	5.4	6.2	5.1	4.5	4.6	4.5
8	5.2	5.1	5.5•	4.9	5.9	6.1	5.7	5.7	4.9	4.4	4.4	4.4
9	5.1	5.1	5.3	4.7	7.7	5.7	5.6	5.4	4.9	4.3	4.3	4.5
10	5.1	5.1	5.3	4.8	7.0	5.5	5.7	5.5	4.8	4.3	4.3•	4.4
11	5.3	5.6	5.4	5.3•	8.1	5.5	5.8•	6.5•	4.8	4.1	4.6	4.4
12	5.2	5.2	5.5	5.4	7.7	5.5	6.7	6.0	4.8	4.2•	4.5	4.4
13	5.3	5.0	5.5	5.3	7.7	5.6•	6.0	5.6	4.5	4.5	4.5	4.4
14	5.0	5.2	5.3	5.4	7.6	5.6	5.9	5.5	4.4•	4.6	4.1	4.5
15	5.1	5.2•	5.3	5.6	8.5•	5.9	5.5	5.4	4.3	4.5	4.1	4.5
16	5.1	5.0	5.6	5.2	7.1	5.5	5.5	5.3	4.2	4.4	4.1	4.7
17	5.2	4.7	6.0	5.1	6.7	5.9	5.5	5.3	4.3	4.5	4.3	4.9
18	5.1•	5.5	5.7	5.0	6.3	5.8	5.6	5.3	4.2	4.3	4.1	4.8
19	5.0	5.0	5.5	5.0	6.8	5.5	5.7	6.3	4.2	4.4	4.4	4.7
20	5.1	4.8	5.4	5.0	6.8	5.9	5.6	5.8	4.6	4.2	4.4	4.7
21	5.3	4.9	5.5	4.8	7.4	5.9	5.7	5.9	4.6	4.1	4.3	4.6
22	5.1	4.9	5.4	4.8	7.2	5.8	5.6	5.5	4.6	4.2	4.1	4.6
23	5.0	5.0	5.6	4.7	6.9	6.0	5.7	5.3	4.7	4.2	4.0	4.7
24	5.0	4.9	5.5	4.9	6.2	6.2	5.3	5.1	4.6	4.1	4.2	4.7
25	4.9	5.2	5.1	4.5	6.5	6.7	4.9	5.1	4.5	4.2	4.4	4.7
26	5.0	5.6	5.1	4.6	6.1	6.7	4.7	5.2	4.4	4.1	4.4	4.7
27	5.2	5.9	4.9	5.0	6.1	6.7	4.9	5.1	4.5	4.1	4.6	4.8
28	5.5	5.5	5.0	4.9	6.4	6.8	4.9	5.3	4.5	4.1	4.7	4.8
29	5.2	5.4	4.9	5.1		7.2	4.9	5.6	4.6	4.0	4.7	4.9
30	5.2	6.1	5.0	5.1		5.8	4.8	7.2	4.5	4.0	4.6	4.9
31	5.3		4.8	6.0		3.5		6.3		4.2	4.7	
Mean	5.1	5.2	5.5	5.0	6.7	5.8	5.4	5.7	4.8	4.3	4.3	4.6
Max. Mean	5.5	6.1	7.7	6.0	8.5	7.2	6.7	7.2	6.3	4.6	4.7	4.9
Min. Mean	4.9	4.7	4.8	4.5	5.4	3.5	4.6	5.1	4.2	4.0	4.0	4.3
Ac.-Ft.	316	311	337	306	372	360	324	349	285	263	267	273

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3763

TABLE 30

DAILY MEAN DISCHARGE
HORSE CREEK AT LITTLE VALLEY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	7.7	37 E	9.4	14	11	11	8.5	14	3.8	4.0	4.6
2	5.6	8.2	56 E	8.8	16	10	11	7.4	15	3.6	4.0	4.8
3	5.6	9.2	33 E	9.3	19	11	10	6.4	16	3.5	4.2	4.9
4	6.0	9.0	21	9.5	18	11	9.6	7.7	14	3.4	4.2	4.7
5	5.4	8.7	14	9.8	16	11	9.4	8.2	13	3.7	4.1	4.4
6	5.7	8.7	11	9.3	14	12	8.8	9.0	9.2	3.8	4.2	4.5
7	5.6	9.5	9.6	9.3	13	11	7.5	10	10	4.1	4.5	4.7
8	6.1	9.5	9.1	9.0	13	11	4.8	9.2	11	4.1	4.8	4.6
9	5.6	9.0	9.0	9.4	19	12	5.5	9.3	9.0	4.2	4.7	4.3
10	8.9	9.2	8.8	9.8	25	11	5.8	9.7	8.4	4.5	4.3	4.1
11	8.0	10	8.8	9.8	40 E	11	6.1	11	7.9	5.0	4.1	4.1
12	9.8	11	9.5	9.6	45 E	11	8.1	12	7.5	5.5	3.7	4.2•
13	9.7	11	10	9.4	33 E	11	8.9	11	6.3	5.5	3.5	4.5
14	7.2	12	11	9.6	25	11	7.6	10	5.2	5.2	3.5	4.5
15	7.4	11•	11	9.6	30• E	11	7.9	8.5	4.5	5.1	3.5	4.5
16	6.9	11	10	9.3	42 E	10	7.2	8.8	4.5	5.2	3.4	4.5
17	6.9	11	11	9.6	32 E	10	6.7•	8.6•	4.1	5.1	3.4	5.1
18	7.6•	11	10	9.5	23	9.6	7.1	7.9	3.9	5.0	3.7	6.1
19	7.7	10	10	9.4•	19	9.5	8.0	7.7	4.1•	4.9	3.9	5.6
20	7.6	10	11	9.6	17	10	7.7	7.1	4.8	5.1	3.8	5.0
21	8.1	9.8	11	9.2	15	9.6	7.7	7.5	4.7	4.3	3.9	5.2
22	7.7	9.6	10	9.2	14	9.4	8.9	7.2	4.5	3.8	3.8	5.3
23	7.4	9.8	9.8	9.6	13	10	9.8	7.0	4.7	3.8	3.9	5.7
24	7.7	9.6	9.4	10	12	11	10	6.4	4.8	3.6•	3.9	5.5
25	7.9	10	9.2	10	12	14	11	6.7	4.5	3.8	3.9	5.6
26	8.1	13	9.3	11	12	16	11	7.4	4.6	3.9	3.7	6.1
27	7.6	11	9.4	11	11	18	9.0	7.7	4.5	4.0	3.7	6.2
28	7.4	11	9.5	11	11	18	8.7	6.5	4.5	4.1	4.2	6.1
29	7.7	12	9.1	11		14	8.1	6.9	4.7	4.1	4.4	6.2
30	7.6	13	9.2	11		13	8.1	11	4.3	3.9	4.2	6.7
31	7.7		9.2	13		12		12		4.0	4.5	
Mean	7.2	10.2	13.4	9.8	20.5	11.6	8.4	8.5	7.3	4.3	4.0	5.1
Max. Mean	9.8	13	56	13	45	18	11	12	16	5.5	4.8	6.7
Min. Mean	5.4	7.7	8.8	8.8	11	9.4	4.8	6.4	3.9	3.4	3.4	4.1
Ac.-Ft.	444	606	825	605	1137	714	498	524	433	265	245	302

E – Estimated NR – No Record

Total Discharge in Acre-Feet 6598

• Discharge measurement (or observation of no flow) made on this day.

TABLE 31

DAILY MEAN DISCHARGE
FALL RIVER NEAR DANA

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	378	399	427	396	571	480	502	527	484	382	366	376
2	377	396	450	393	535	480	510	524	496	382	365	377
3	377	400	430	395	546	479	523	523	484	381	365	378
4	379	400	419	394	522	475	539	520	472	381	365	379
5	379	401	410	394	510	478	548	518	465	379	367	379
6	384	404	403	395	504	479	548	523	458	379	367	380
7	383	406	403	397	506	472	547	530	454	379	367	382
8	384	405	405	398	503	473	548	523	448	378	368	384
9	381	404	403	399	524	479	550	516	442	378	367	385
10	384	405	401	402	575	475	551	528	439	377	365	386
11	384	408	401	400	621	479	552	553	434	378	365	388•
12	385	412	400	399	606	476	561	555	435	379	366	387
13	385	417	398	399	571	470	568	540	426	379	365	386
14	385	416	401	400	559	476	565•	532	423	379	366	385
15	384	413	403	400	586	494	544	529	421	377	367	385
16	384	415•	399	401	586•	492	525	525	416	376	366	386
17	385	409	430	399	554	487	518	520•	412	375	368	385
18	389•	413	468	400	538	480	507•	515	405	373	366	384
19	389	408	481•	399	529	479	508	517	400•	373	368	383
20	388	407	448	400•	521	484	504	517	399	373	370	382
21	392	408	429	401	515	478	503	516	396	373	369	380
22	392	406	418	401	510	480	515	512	394	370	369	378
23	392	408	410	407	503	482	519	505	394	370	367	376
24	391	407	406	410	497	495	516	498	392	370	367•	376
25	394	421	404	413	498	494	512	490	390	368	368	374
26	393	434	404	414	491	491	512	487	389	368	368	374
27	394	421	401	418	488	490	509	487	391	366	370	373
28	396	415	397	420	484	483•	505	483	390	367	372	373
29	398	412	396	427		483	507	476	387	367	375	372
30	400	409	397	435		488	526	479	385	365	375	370
31	399		397	544		493		480		366	375	
Mean	387	409	414	408	534	482	528	515	424	375	368	380
Max. Mean	400	434	481	544	621	495	568	555	496	382	375	388
Min. Mean	377	396	396	393	484	470	502	476	385	365	365	370
Ac.-Ft.	23810	24360	25470	25090	29660	29640	31420	31630	25230	23020	22620	22620

E – Estimated NR – No Record

Total Discharge in Acre-Feet 314600

• Discharge measurement (or observation of no flow) made on this day.

TABLE 32

DAILY MEAN DISCHARGE
HAY CREEK NEAR CASSEL

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	397	503	653	510	548	558	547	500	514	487	427	426
2	409	502	639	524	546	539	541	478	527	482	438	420
3	458	605	588	578	545	534	546	472	534	482	440	415
4	446	613	551	532	530	534	556	448	524	477	441	415
5	431	533	539	537	496	530	558	447	533	473	442	419
6	456	487	551	561	582	534	550	449	523	488	444	419
7	444	537	543	490	548	539	545	455	528	472	445	415
8	505	566	515	509	560	545	544	443	533	469	451	414
9	499	534	537	590	576	550	533	460	535	469	454	418
10	508	530	506	528	564	539	526	456	527	469	448	411
11	514	575	540	521	629	540	522	465	486	478	446	400
12	517	584	568	563	582	534	510	480	470	477	446	414
13	516	574	532	536	567	541	516	477	458	481	437	414
14	514	546	556	487	565	540	515	474	464	480	442	419
15	514	579•	551	495	592	542	510	478	448	481	443	412
16	517	524	554	595	573	545	497	486	445	478	441	432
17	513	541	526	547	556	550	488	491•	441	476	442	438
18	513•	547	545	542	548	539	496•	486	440	474	439	440
19	514	495	574	505	519	529	490	480	463•	466	439	437
20	505	494	562•	518	525	540	481	471	462	472	441	430
21	502	592	554	455	560	545	483	480	456	469	450	441
22	506	557	547	501	552	549	516	474	463	464	460	433
23	504	540	555	574	545	545	506	460	471	462	454	443
24	503	462	448	521	549	588	526	454	473	459	439•	421
25	513	602	536	515	533	599	519	449	491	454	448	405
26	514	667	522	530	523	578	518	440	499	446	447	432
27	509	558	585	519	527	582	507	444	493	442	447	415
28	511	545	540	481	489	579•	500	440	489	443	440	430
29	514	552	525	539		573	497	452	496	434	437	425
30	496	538	568	574		567	502	471	493	433	425	430
31	379		496	554		555		502		432	448	
Mean	488	546	549	530	551	550	518	467	489	467	443	423
Max. Mean	517	667	653	595	629	599	558	502	535	488	460	443
Min. Mean	379	462	448	455	489	529	481	440	440	432	425	400
Ac.-Ft.	30030	32490	33730	32590	30600	33840	30830	28690	29120	28700	27260	25160

E - Estimated NR - No Record

Total Discharge in Acre-Feet 363000

• Discharge measurement (or observation of no flow) made on this day.

TABLE 33

DAILY MEAN DISCHARGE
BURNEY CREEK NEAR BURNEY

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	15	200	23	187	47	105	102	97	14	5.1	8.3
2	7.4	13	98	23	170	52	110	105	116	13	5.8	8.1
3	7.5	15	57	23	176	56	128	95	88	16	5.6	8.0
4	8.0	13	36	23	125	60	138	88	73	15	5.2	8.6
5	9.6	14	27	23	98	58	130	83	62	14	5.8	8.3
6	24	16	22	23	92	52	119	119	56	14	6.2	8.4
7	16	16	23	26	96	51	112	134	49	15	6.2	9.0
8	13	14	20	27	91	71	105	119	45	13	6.3	9.5
9	12	13	20	24	230	73	106	108	38	12	7.5	10
10	12	16	20	25	224	74	112	133	35	12	8.1	11
11	12	19	21	23	211	68	103	134	36	11	7.5	11•
12	14	23	18	21	161	62	122	128	39	12	7.7	11
13	16	30	17	21	138	60	120	112	31	12	9.4	11
14	13	22	22	20	146	73•	104	101	28	11	10	11
15	12	19•	20	20	179•	96	96	96	27	12	9.4	11
16	12	20	29	18	144	79	96	95	25	10	12	11
17	12	23	97	17	128	82	100	92	25	10	13	12
18	12•	65	115	20	131	73	99	91•	24	9.7	13	11
19	12	24	86•	19•	98	79	95	94	23	9.5	13	9.4
20	12	18	56	17	86	103	84	92	24•	11	14	8.9
21	14	19	49	18	97	91	96	88	21	12	12	8.6
22	14	16	40	18	90	96	103	86	19	11	11	8.1
23	13	18	34	20	69	104	102	80	18	7.7	12	7.6
24	12	30	32	21	87	123	106	68	19	7.4	12	7.7
25	13	81	30	20	97	117	106	66	20	7.1•	11•	8.0
26	12	44	29	23	63	109	102	78	19	6.6	11	8.2
27	12	31	25	26	60	105	103	80	17	6.6	12	9.1
28	12	26	24	23	53	98	102	70	16	6.5	13	8.6
29	12	21	24	36		88	107	63	15	6.6	14	8.4
30	12	32	25	85		92	105	78	15	6.2	14	8.6
31	13		25	340		99		99		5.4	13	
Mean	12.4	24.2	43.3	34.4	126	80.4	107	96.0	37.3	10.6	9.9	9.3
Max. Mean	24	81	200	340	230	123	138	134	116	16	14	12
Min. Mean	7.4	13	17	17	53	47	84	63	15	5.4	5.1	7.6
Ac.-Ft	760	1440	2660	2114	6996	4941	6379	5905	2221	653	607	554

E - Estimated NR - No Record

Total Discharge in Acre-Feet 35230

• Discharge measurement (or observation of no flow) made on this day.

TABLE 34

DAILY MEAN INFLOW
SHASTA LAKE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4130	3610	37920	4470	22870	7430	10580	8710	8020	3780	3410	3630
2	2290	3630	25400	4090	18190	7530	10420	8170	8300	2620	3620	3010
3	3260	3420	14770	5200	16160	7560	11120	7430	5390	3540	3960	2980
4	3570	3540	10480	6050	13030	5860	11540	7360	6050	3310	3870	2450
5	4150	3830	8270	5410	11130	7930	10820	7660	6690	4320	3170	3340
6	4590	3420	6820	5210	10210	7440	10440	8170	6400	4100	2250	3440
7	4080	4020	6220	4130	10190	7090	9800	5220	6610	4160	3570	3260
8	3720	3860	5920	3780	10980	8500	8480	6950	6190	3680	4000	3370
9	3510	3280	5790	4960	24720	9480	7850	8310	5920	2700	3720	3690
10	3650	3140	5800	5420	26440	9800	8530	9930	4980	3850	3330	2260
11	3680	3990	4230	5400	36640	10090	8680	11250	3720	3990	3770	3370
12	3800	5460	5510	5250	24840	8630	8480	9800	5470	4310	3270	3390
13	3600	7470	5480	5300	20220	9370	8360	8050	5620	4020	2090	3610
14	3540	4850	4760	5150	18750	11860	7730	6780	5390	3960	3240	3540
15	3580	4480	6610	3640	22610	20620	7630	8460	5670	3780	3900	3740
16	3300	4150	13110	4720	19610	18960	7650	8390	5330	2740	3600	3650
17	3490	4620	24460	5240	16800	18300	7700	8840	3530	3730	3430	2580
18	3730	5570	21920	5210	14480	15200	7880	8640	3170	3720	3680	3340
19	3760	4390	17560	4810	13020	14010	7500	8400	4140	3780	2870	3780
20	3660	3570	13610	4890	11760	12570	6960	7000	4070	3740	2530	3680
21	3900	4100	10800	3690	11080	12600	7860	6180	4880	3710	3160	3680
22	3610	4090	9650	3390	10360	12010	7290	7590	4740	3580	3730	3750
23	3720	5220	7980	5200	9780	11840	8220	7460	4600	2190	3300	3070
24	3850	8410	7000	4880	9410	13200	8320	7000	4000	3300	3510	b 2130
25	3590	17960	6140	4990	8740	13020	8120	7220	3710	3540	3420	3300
26	3840	9850	6280	5790	7160	15920	7460	8080	4190	3760	3420	3290
27	3560	6720	6300	5840	7940	15500	7390	5950	4420	3640	2560	3710
28	4040	5420	6830	3310	7420	13900	7580	5010	4400	3730	3020	3380
29	3560	5900	6140	8130		12480	6320	6660	4510	3520	3400	3370
30	3740	8670	5830	17020		11970	a 6330	7020	3890	2890	3670	3310
31	3930		5230	43310		11480		6400		3340	3640	
Mean	3691	5355	10414	6577	15519	11682	8435	7680	5133	3582	3358	3303
Max. Mean												
Min. Mean												
Ac.-Ft.	226970	318620	640300	404390	861900	718310	501370	472240	305450	220220	206500	196740

E - Estimated NR - No Record

Total Discharge in Acre-Feet 5073010

a 23 hour day
b 25 hour day

TABLE 35

DAILY MEAN DISCHARGE
SPRING CREEK NEAR KESWICK

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			332 E	11	151*	25	11	18	13	4.0		
2			169*	11	164	26*	7.8	15	16	4.2		
3			118	12	137	28	6.1	15	13	3.7		
4		0.9	72	12	104	26	5.1	14	13	4.1		
5		1.2	60	12	85	33	3.5	14	11	3.6		
6		2.0	45	10	70	30	2.8	26	9.4*	3.9		
7		1.4	30	11	61	26	NR	20	8.8	3.8		
8		0.8	20	9.8	60	33	NR	17	8.8	3.5		
9		1.0	19	10*	161	38	NR	23*	8.6	3.5		
10		1.3	17	11	171 b	41	NR	22	8.6	3.7		
11		1.5	17	12	210 E	36	NR	22	8.0	3.5		
12		3.4	15	12	145	31	NR	20	7.6	3.5		
13		9.0	16	11	121	30	NR	18	7.8	3.5		
14		2.9*	14	9.3	101	107 E	NR	16	8.2	3.3		
15		2.4	33	9.3	162	227 E	NR	14	7.6	3.2		
16		1.9	167 E	9.3	122	81	NR	14	7.6	3.0		
17		2.5	285 E	9.8	104	135	NR	14	7.6	3.0		
18		3.7	233 E	9.3	85	60	NR	13	7.0			
19		2.6	128	9.8	74	39	NR	12	6.4			
20		2.6	78	9.8	57	23	NR	13	6.3*			
21		3.2	57	8.4	53	21	NR	12	6.1			
22		2.8	41	9.3	48	17	NR	12	5.4			
23		3.7	34	14	44	15	NR	12	5.6			
24		13	28	8.0	40	25	NR	12	5.7			
25		90 E	23	7.9	34	16	17* E	12	5.6			
26		16	20	13	32	50	17	14	5.4			
27		9.8	20	23*	28	54	16	14	5.1			
28		12*	18	12	25	35	15	13	4.7			
29		10	17	103		25	21	13	4.2			
30		84* E	17	197* E		17	16	15	4.0			
31			14	477 E		12		14				
Mean			69.6	35.0	94.6	43.9		15.6	7.9			
Max. Mean			332	477	210	227		26	16			
Min. Mean			14	7.9	25	12		12	4.0			
Ac.-Ft.			4278	2150	5254	2701		958	468			

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 36

DAILY MEAN DISCHARGE
LITTLE COW CREEK NEAR INGOT

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	6.6	2360 E	39	660	102	224	144	100	14	7.3	8.7
2	6.8	6.8	524	36	839	99	221	134	118	13	7.5	9.0
3	6.8	7.7	228	35	563	94	230	126	93	14	7.1	8.4
4	6.4	7.7	119	34	343	89	239	119	85	14	7.4	8.4
5	7.6	9.1	81	34	258	143	232	116	81	14	7.7	8.2
6	21	13	62	34	235	118	209	134	73	14	8.1	7.7
7	14	19	52	34	215	99	189	125	68	13	8.4	7.4
8	12	16	47	39	402	330	174	108	62	12	8.4	7.0
9	10	15	42	65	2060	334	168	112	58	12	9.0	7.1
10	10	14	39	50	791	321	158	147	55	12	8.4	7.4
11	10	21	36	42	1960 E	266	151	268	53	12	8.6	7.3*
12	11	60	33	38	674	182	167	151	52	11	8.5	6.9
13	10	278	31	37	565	157	149	127	46	11	7.8	6.8
14	9.8	114	30	34	743	303	137*	115	41	9.3	7.4	7.1
15	9.8	50	33	34	817	454	130	112	38	8.0	7.2	7.7
16	9.3	34*	298	33	507	298	130	107	34	7.8	7.4	11
17	9.8	32	1350	32	379	520	132	102	32	7.5	7.9	12
18	10*	258	586	31	299	269	129	97*	30	9.1	8.1	11
19	8.4	51	323	31	253	479	116	103	27	9.4	8.6	9.3
20	8.4	35	176	29*	220	448	107	108	25*	8.8	9.5	8.9
21	8.4	30	124	28	194	288	113	104	23	8.5	8.5	8.2
22	8.4	26	100	28	176	255	172	100	23	7.5	8.1	8.1
23	7.2	31	81	33	159	263	423	91	23	7.8	8.2	8.1
24	8.9	58	70	33	147	841	296	84	20	7.7	8.0	7.8
25	8.0	755	64	31	137	487	202	82	18	7.6*	8.0	8.1
26	8.0	468	57	35	126	996	157	103	17	6.9	8.3	8.0
27	8.4	147	52	76	115	565	136	87	17	6.8	8.4	7.9
28	8.4	74	47	50	109	369	127	78	16	6.8	8.6	8.0
29	8.0	55	46	519		302	144	75	15	7.4	9.4	7.7
30	6.8	140	44	953		262	143	93	15	7.6	9.2	7.6
31	6.8		41	2470		237		85		7.5	9.4	
Mean	9.2	94.4	232	161	498	322	177	114	45.3	9.9	8.2	8.2
Max. Mean	21	755	2360	2470	2060	996	423	268	118	14	9.5	12
Min. Mean	6.4	6.6	30	28	109	89	107	75	15	6.8	7.1	6.8
Ac.-Ft.	566	5617	14230	9911	27660	19780	10520	7016	2694	611	505	490

E - Estimated NR - No Record

Total Discharge in Acre-Feet 99600

* Discharge measurement (or observation of no flow) made on this day.

TABLE 37

DAILY MEAN DISCHARGE
SALT CREEK NEAR BELLA VISTA

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	790 E	2.7	165*	5.5	17	2.8	0.8			
2		0	141*	2.4	191	4.8	14	2.6	1.9			
3		0	67	2.3	134	4.3	11	2.0*	1.5			
4		0	25	1.9	72	4.2	8.5	1.7	1.3			
5		0	14	1.8	41	11	7.1	1.7	1.1			
6		0	8.2	1.9	32	7.2	6.5	2.8	0.7			
7		0	5.7	1.7	20	4.8	6.0	3.8	0.6			
8		0	4.4	1.9	22	12	5.2	1.9	0.5		•	
9		0	3.5	3.1	568	17	4.8	1.8	0.4			
10		0	3.2	2.3	199	16	4.2	2.9	0.4	•		
11		0	2.9	1.9	303	15	3.9	4.8	0.3			•
12	N	7.0	2.5	1.8	120	13	3.8	2.8	0.3	N	N	N
13	0	88	2.1	1.8	69	12	3.5	1.8	0.3	0	0	0
14		15*	2.0	1.7	75	34	3.0	1.4	0.3			
15		4.9	5.9	1.6	105	66	2.7	1.0	0.2			
16	F	2.1*	161	1.5	71	49*	2.4	1.0	0.2	F	F	F
17	L	1.7	541	1.5	44	77	2.2	0.8	0.2	L	L	L
18	0*	9.6	205	1.4	32	53	2.0	0.8*	0.2	0	0	0
19	W	4.1	93	1.3	23	83	2.0	0.7	0.2	W	W	W
20		2.5	47*	1.3*	19	91	2.0	0.6	0.2			
21		2.1	27	1.5	15	56	2.3	0.7	0.2			
22		1.5	17	1.3	12	39	26	0.6	0.1			
23		1.9	12	2.0	11	30	34	0.5	0.1			
24		5.3	8.9	1.7	9.2	49	11	0.4	0.1			
25		163	7.2	1.4	8.5	47	6.4	0.4	0.1	•	•	
26		102	6.2	2.0	7.7	127	4.8	1.2	0.1			
27		27	4.9	8.7	6.7	105	3.7	1.2	0			
28		13	4.2	5.1	5.8	61	2.9	0.6	0			
29		7.9	3.5	118		40	3.3	0.5	0			
30		18	3.1	231		29	3.0	0.6	0			
31			2.8	679		22		1.0				
Mean	0	15.9	71.7	35.1	85.0	38.2	7.0	1.5	0.4	0	0	0
Max. Mean	0	163	790	679	568	127	34	4.8	1.9	0	0	0
Min. Mean	0	0	2.8	1.3	5.8	4.2	2.0	0.4	0	0	0	0
Ac.-Ft.	0	945	4406	2161	4722	2350	415	94	24	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 15120

* Discharge measurement (or observation of no flow) made on this day.

TABLE 38

DAILY MEAN DISCHARGE
BEAR CREEK NEAR MILLVILLE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9	12	1350 E	34	340•	78•	171	61	54	8.4	6.9	4.0
2	7.8	12	404	32	545	77	155	60	78	8.2	6.9	4.1
3	6.5	12•	207	30	316	73	143	54	59	10	6.8	4.3
4	6.7	12	125	30	207	72	133	51	48	9.9	5.5	4.2
5	7.1	12	91	30	157	101	122	49•	43	9.9	5.8	4.7
6	14	13	72	30	165	106	113	64	40	11	6.6	3.9
7	13	20	64	29	160	87	106	96	37	9.3	6.7	3.8
8	11	16	58	35	212•	215	98	65	35•	8.7	6.2	4.9
9	11	14	55	34	941 E	279	94	57	34	7.9	5.7•	2.8
10	11	13	52	32•	442•	212	90	59	32	7.8	5.6	3.4
11	11	20	48	30	936 E	189	81	90	32	7.5	5.6	3.5
12	11	37	44	28	431	156	83•	81	32	7.6•	6.0	3.1•
13	10	251	42	29	324	136	83	62	28	9.1	6.7	3.6
14	11	98	40	29	289	172	75	56	22	8.9	5.5	3.7
15	10	47	41	28	431	420	70	52	22	8.6	5.3	4.1
16	10	33	101	27	320	256	63	48	20	7.7	5.2	5.7
17	11	29	217	27	246	441	60	43	18	6.3	5.9	7.8
18	10	79	162	27	208	242	60	41	18	6.8	5.0	6.7
19	10	41	104	27	180	245	60	39	17	6.4	4.2	7.1
20	10	31	82	26	157	339	58	40	15	6.5	5.6	6.4
21	11	27	71	27	143	237	66	40	14	6.7	5.6	6.9
22	10	26	65•	27	130	209	114	38	14	6.4	4.3	7.4
23	10	25	57	32	116	210	148	36	15	5.9	4.1	7.0
24	10	26	52	32	109	401	116	35	16	6.9	3.9	7.2
25	11	384	48	28	100	334	88	34	15	7.1	4.8	6.4
26	11	395	45	31	94	404	75	44	13	7.2	4.7	6.3
27	11•	125	44	48	88	418	70	41	11	5.7	5.2	6.2
28	10	67	41	39	82	296	64	37	10	5.7	4.8	5.7
29	11	53	39	134		248	64	36	9.9	5.8	5.3	6.6
30	11	76	38	209		214	63	77	9.3	5.4	4.7	6.4
31	11		35	995 E		188		71		6.5	4.3	
Mean	10.2	66.9	126	70.8	281	228	92.9	53.5	27.0	7.6	5.5	5.2
Max. Mean	14	395	1350	995	941	441	171	96	78	11	6.9	7.8
Min. Mean	6.5	12	35	26	82	72	58	34	9.3	5.4	3.9	2.8
Ac-Ft.	627	3979	7724	4356	15610	13990	5526	3287	1609	468	336	311

E – Estimated NR – No Record

Total Discharge in Acre-Feet 57820

• Discharge measurement (or observation of no flow) made on this day.

TABLE 39

DAILY MEAN DISCHARGE
SOUTH FORK BATTLE CREEK NEAR MINERAL

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0	6.4	363	NR	166	36•	97	90	111	22	12	7.1
2	4.7	6.4	105	NR	227	37	121	79	116	21	12	7.1
3	4.7	7.9•	52	NR	155	35	148	79	108	21	11	6.2
4	5.1	8.2	38	NR	98	32	147	76	105	21	10	6.3
5	5.4	7.7	NR	NR	78	30	124	73•	97	21	11	6.0
6	24	10	NR	71	70	34	109	87	96	22	12	6.2
7	10	13	NR	71	61	33	96	74	96	22	15	7.8
8	8.4	10	NR	65	66	30	88	72	92	21	13	9.4
9	6.9	9.7	NR	51	277	33	89	81	84	18	14	9.0
10	7.4	9.1	NR	29•	175	32	81	110	88	19	12	8.4
11	8.0	26	NR	24	190	32	81	104	86	18	11	8.3
12	7.3	29	NR	22	120	31	111•	103	80	18•	16	7.4
13	6.9	17	NR	20	95	38	85	89	79	19	12	7.2
14	6.9	22	NR	20	98	58	76	90	77	18	15	7.0
15	6.7	13	NR	20	121	73	78	96	64	16	12	7.4
16	6.7	13	64	19	94	46	90	101	64	16	9.0	8.2
17	6.7	17	161	18	72	43	105	111	56	16	8.5	9.7
18	6.7	87	103	17	62	40	104	127	44	16	8.4	8.6
19	6.7	29	68	17	61	55	83	154	42	15	9.3	8.1
20	6.0	19	49	18	61	76	74	144	42	14	11	7.7
21	5.2	19	43	17	60	66	79	133	40•	14	9.2	7.5
22	5.3	15	40	17	55	86	76	132	37	14	8.0	7.6
23	6.2	17	33	21	48	106	72	123	35	14	7.0	7.3 E
24	6.9	74	33	21	45	79	70	117	35	14	6.4	6.8 E
25	6.8	154	31	20	43	67	77	121	32	14	6.3	6.6
26	10	55	29	30	40	60	79	122	30	14	6.2	6.3
27	8.9	37	25	31	40	53	89	100	29	14•	7.1	6.0
28	7.9	29	28	26	37	50	83	100	28	13	9.4•	5.9
29	6.7	22	30	47		56	90	96	25	12	14	5.8
30	6.7	48	27	127		72	79	113	22	12	9.5	5.7
31	6.5		NR	508•		88		100		13	8.1	
Mean	7.3	27.7			97.0	51.8	92.7	103	64.7	16.8	10.5	7.3
Max. Mean	24	154			277	106	148	154	116	22	16	9.7
Min. Mean	4.7	6.4			37	30	70	72	22	12	6.2	5.7
Ac-Ft.	451	1647			5385	3187	5516	6341	3848	1035	645	434

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 40

DAILY MEAN DISCHARGE
NORTH FORK COTTONWOOD CREEK NEAR IDO

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	1.5	525	77	849	184	233	125	28	16	8.7	9.4
2	11	1.3	230	74	1080	152	232	101	35	12	7.8	9.4
3	9.9	1.0	164	71	588	144	225	93	31	13	8.8	7.4
4	9.0	0.9	123	66	411	140	217	91	29	12	8.7	8.8
5	8.7	1.1	84	66	310	177	209	92	28	16	9.2	8.4
6	10	1.9	72	66	271	172	184	103	25	16	9.6	8.6
7	19	2.8	69	65	239	160	158	99	24	17	9.7	7.7
8	19	2.8	65	67	258	185	130	95	21	17	9.0	8.7
9	18	2.6	63	66	1020	173	122	95	20	15	12	8.4
10	18	2.8	63	65	674	159	123*	95	18	14	9.4	8.5
11	12	8.2	62	64	928	155	120	79	17	11	8.1	9.6
12	9.4	17	59	60	661	146	114	77	18	13	10	8.5
13	11	44	58	59	528	144	103	71	18	11	11	8.7
14	11	35	59	59	515	203	100	70	16	16	11	9.3
15	11	25	84	59	507	553	96	65	15	11	11	11
16	14	20	362	59	448	451	94	63	14	10	12	19
17	12	19*	686	58	389	694	91	60	13	9.6	12	29
18	12	31	360	58	349	440	87	60	12	10	10	20
19	14*	26	271	58	316	418	83	54	14	8.5	11	14
20	14	21	211	55	295	372	113	54	14	9.3	30	13
21	15	18	175	55	273	333	128	50	15	9.6	25	15
22	42	16	158*	56	259	317	159	48	15	9.0	24	13
23	40	16	141	60	252	305	156	47	15*	9.3	21	13
24	8.4	30	133	59*	240	385	151	34*	16	9.0	11	12
25	6.7	97	123	59	231	322	145	31	16	8.7	7.2*	11
26	5.8	72	116	111	224	474	141	31	15	8.5*	8.2	10
27	4.4	45	109	147	219*	356*	141*	30	15	8.6	10	11
28	3.0	40	104	99	211	283	135	28	15	8.3	11	11
29	3.0	35	98	1340		257	131	29	16	8.1	11	11
30	2.8	72	93	948		244	130	31	16	9.1	9.5	11
31	1.9		79	2800		235		29		8.9	9.1	
Mean	12.5	23.5	161	226	448	282	142	65.5	18.8	11.4	11.8	11.5
Max. Mean	42	97	686	2800	1080	694	233	125	35	17	30	29
Min. Mean	1.9	0.9	58	55	211	140	83	28	12	8.1	7.2	7.4
Ac.-Ft.	766	1400	9915	13900	24880	17320	8432	4026	1119	703	726	685

E - Estimated NR - No Record

Total Discharge in Acre-Feet 83870

* Discharge measurement (or observation of no flow) made on this day.

TABLE 41

DAILY MEAN DISCHARGE
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1070	38	1170	116	209	99	76	12		
2		0	672	33	1650	105	266	106	75	10		
3		0	253	31	997	94	356	99	80	9.6		
4		0	155	30	573	83	372	96	86	9.6		
5		0	101	31	377	87	321	96	99	9.2		
6		0	74	30	282	85	266	97 E	94	10		
7		0	59	29	220	79	235	97 E	83	11		
8		0	47	27	181	70	190	97 E	78	9.3		
9		0	39	29	735	78	161	95* E	74	7.6		
10		0	35	29	839	74	146	97	66	6.7		
11		0	31	29	1010	68	141	98	65	5.4*		
12	N	0	26	27	838	85	133	97	65	4.5	N	N
13	O	0	23	26	599	80	128	97	64	3.5	O	O
14		0	23	24	492	93	114	93	59	2.8		
15		0	33	24	478	363	108	91	56	2.0		
16	F	0	71	24	449	289	106	90	53	1.6	F	F
17	L	0*	665	24	382	521	114	94	52	1.0	L	L
18	O	0	870	23	326	312	117	97	50	0.7	O	O
19	W*	0	422	23	270	278	117	103	45	0.2	W	W
20		0	251	21	241	447	109	113	39	0.1		
21		0 E	172	21	215	396	106	121	35	0		
22		0 E	133*	21	198	343	115	118	31	0		
23		0 E	108	26	182	463	109	109	29*	0		
24		30 E	96	29*	168	423	105*	100*	27	0		
25		122	83	30	152	353	95	95	25	0	•	
26		171	70	228	139	293	91	92	21	0*		
27		78	63	193	130*	262*	89*	91	18	0		
28		49	54	92	119	234	108	86	17	0		
29		39	47	315		202	109	88	14	0		
30		43*	44	462*		188	113	89	13	0		
31			41	2090*		189		83		0		
Mean	0	17.7	188	131	479	218	158	97.5	53.0	3.8	0	0
Max. Mean	0	171	1070	2090	1650	521	372	121	99	12	0	0
Min. Mean	0	0	23	21	119	68	89	83	13	0	0	0
Ac.-Ft.	0	1055	11570	8051	26600	13390	9419	5998	3152	232	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 79470

* Discharge measurement (or observation of no flow) made on this day.

TABLE 42

DAILY MEAN DISCHARGE
DRY FORK SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				NR	452	27	36	9.7	5.1			
2				NR	1710	25	35	8.9	4.3			
3				NR	510	23	34	8.0	4.0			
4				NR	257	22	32	7.0	3.8			
5				NR	171	23	29	7.1	2.8			
6				NR	127	27	26	7.4	2.1			
7				NR	103	23	25	9.1	1.8			
8				NR	93	23	23	8.0	1.5			
9				NR	836	28	21	8.0	1.2			
10				NR	387	24	21	9.3	1.0			
11				NR	473	25	20	9.3	0.7	•		
12	N	N	N	NR	278	26	19	8.4	0.6	N	N	N
13	O	O	O	5.4 E	189	24	17	7.8	0.4	O	O	O
14				4.7	146	31	17	6.8	0.2			
15				4.2	139	113	17	6.1	0.2			
	R	R	R									
16	E	E	E	4.3	111	59	16	5.8	0.2	F	F	F
17	C	C	C	4.3	84	230	15	5.0	0.1	L	L	L
18	O	O	O	4.2	71	103	15	4.7	0	O	O	O
19	R	R	R	4.2	63	78	14	4.1	0	W	W	W
20	O	D	D	4.2	56	87	14	3.7	0			
21				3.7	51	67	15	4.7	0			
22				4.2	46	62	19	4.9	0			
23				6.2	41	63	20	4.1	0•			
24				5.3•	37	66	17•	4.2•	0			
25				3.8	35	69	14	3.6	0		•	
26				130	33	62	12	3.1	0	•		
27				121	31•	59•	11	4.1	0			
28				51	28	50	11	4.1	0			
29				502		45	10	3.2	0			
30				485•		42	9.7	4.0	0			
31				1490•		39		5.9				
Mean					234	53.1	19.5	6.1	1.0	0	0	0
Max. Mean					1710	230	36	9.7	5.1	0	0	0
Min. Mean					28	22	9.7	3.1	0	0	0	0
Ac-Ft.					13010	3263	1160	377	60	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 43

DAILY MEAN DISCHARGE
RED BANK CREEK NEAR RED BLUFF

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			520	3.0	241	12•	9.9	2.2				
2			55•	3.3	951	12	9.9	1.8				
3		•	19	4.5	318	11	9.9	1.7				
4			14	3.5	156	11	9.2	1.4•			•	
5			11	3.4	91	11	8.1	1.3		•		
6			9.9	3.0	64	11	7.8	2.6	•			•
7			8.2	2.7	47	9.9	7.3	3.3				
8			6.2	2.5	39	9.7	7.3	2.6				
9			6.5	2.9	412	11	7.3	2.7				
10			6.5	2.5	170	9.5	7.3	2.9				
11			5.3	2.3	265	9.1	7.0	3.2				
12	N	N	4.5	2.0	111	9.6	6.9	3.2	N	N	N	N
13	O	O	4.2	1.7•	69	9.1	6.9	3.1	O	O	O	O
14			3.7	1.5	57	17	6.7	3.1				
15			5.4	1.3	47	155	7.3	2.5				
16	F	F	13	1.4	41	41	6.3	1.7	F	F	F	F
17	L	L•	150	1.3	33	251	7.0	0.8	L	L	L	L
18	O	O	41	1.9	28	55	5.9	0.1	O	O	O	O
19	W	W	18	1.8	22	36	5.4	0•	W	W	W	W
20			11	1.8	21	29	6.0	0				
21			9.5	1.7	21	24	6.5	0	•			
22			7.6	1.7	18	19	7.2	0				
23			6.2	2.5	15	18	7.2	0				
24	•		5.3	3.1	15	17	6.0•	0				
25			4.5	2.7	15	16	5.5	0				
26			4.5	299	14	22	4.5	0				
27			3.7	66	13	15	3.6	0				
28			3.9	15	13	13	3.1	0				
29			4.0	486		11	3.3	0				
30		•	3.5	310•		12	2.6	0				
31			2.9	690•		11		0				
Mean	0	0	31.2	62.1	118	29.0	6.6	1.3	0	0	0	0
Max. Mean	0	0	520	690	951	251	9.9	3.3	0	0	0	0
Min. Mean	0	0	2.9	1.3	13	9.1	2.6	0	0	0	0	0
Ac-Ft.	0	0	1920	3820	6559	1781	395	80	0	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 14560

• Discharge measurement (or observation of no flow) made on thie day.

TABLE 44

DAILY MEAN DISCHARGE
NORTH FORK MILL CREEK NEAR LOS MOLINOS

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0	7.0 E	NR	14	2.8*	2.8*	3.2	3.5	3.1	0.1	0.2	0.2
2	0	7.4	NR	14	2.9	2.9	2.6	3.3*	3.9	0.1	0	0
3	0	8.7	NR	14	2.7	2.9	3.2	3.1	3.6	0.2	0	0
4	0	12	NR	12	3.3	2.8	3.9	3.2	3.8	0.2	0.1*	0
5	0	16	NR	12	3.3	3.1	3.6	3.0	3.5	0.2	0	0
6	0	16	NR	8.3	4.0	3.3	3.4	3.1	3.5*	0.1	0.2	0
7	0.1	17	NR	3.7	3.6	3.0	3.3	3.1	3.5	0.1	3.2	0
8	0	17	12	4.3	3.2	2.6	4.0	2.9	3.6	0.2	1.5	0
9	0.6	17	11	4.7	3.7	3.5	3.8	3.1	3.4	0.5	1.9	0
10	1.0	16	11	5.4	3.0	3.2	3.4	2.5	3.2	0.4	0.5	0
11	2.0	17	11	4.7	3.2	2.9	3.0	2.5	3.4	0.2	0.1	0.2
12	1.9	17	11	4.8	3.1	2.8	3.4	2.4	2.9	1.1	0	0.1
13	1.7	18	10	4.4*	3.7	2.6	3.2	2.3	3.3	1.9	0.1	0
14	1.6	15	10	4.0	3.4	2.8	2.7	2.8	3.0	1.2	0.2	0
15	1.6	14 E	9.8	4.0	3.7	3.8	2.8	3.1	3.0	0.4	0.1	0
16	1.6	15	11	3.6	3.6	2.9	3.5	2.6	3.2	0.7	0	0
17	1.6	17*	10	3.6	3.3	3.6	4.4	2.9	3.0	0.4	0	0.2
18	0.7	18	11	3.8	3.0	3.7	4.4	3.2	2.9	0.5	0.2	0.1
19	0.6	17	11	3.6	2.8	3.9	3.6	3.6	1.3	0.1	0	0.1
20	1.4	21 E	15	3.6	3.1	4.0	3.0	3.6	1.3	0.3	0	0.1
21	1.3	24 E	20	3.5	3.3	3.8	3.1	3.3	6.2*	0.5	0	0
22	1.3	24 E	19	3.6	3.3	3.7	3.9	3.4	11	0.5	0	0
23	1.2	24 E	18	3.0	3.1	3.9	3.0	3.3	10	0.2	0	0
24	1.5 E	23 E	18	3.0	3.1	3.0	2.9*	3.3	9.2	0	0	0
25	2.6 E	19 E	17	3.0	2.7	3.1	2.7	2.8	8.9	0	0	0
26	3.0 E	NR	16	3.1	2.7	3.0	2.9	2.2	8.5	0	0	0
27	3.5 E	NR	16	2.9	2.5	3.4	2.9	2.1	3.0	0	0	0
28	4.1 E	NR	15	3.0	2.7	3.8	2.8	2.7	0.3	0	0.1	0
29	4.8 E	NR	14	3.3		3.7	3.0	2.8	0.1	0	0.2	0
30	5.4 E	NR	14	3.9		3.7	3.4	3.5	0.1	0	0.1	0
31	6.2 E		14	4.7		3.7		3.4		0.3	0	
Mean	1.7			5.5	3.2	3.3	3.3	3.0	4.0	0.3	0.3	0.0
Max. Mean	6.2 E			14	4.0	4.0	4.4	3.6	11	1.9	3.2	0.2
Min. Mean	0.0			2.9	2.5	2.6	2.6	2.1	0.1	0.0	0.0	0.0
Ac.-Ft.	102			336	176	202	196	184	237	21	17	2

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 45

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT VINA BRIDGE

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5870	6320	50200	5590	43300	17100*	12300	10400	9780*	11100	12000*	9150
2	5900	6280*	54000	5960	38300	15800	12200	10400*	10400	11100	12000	8730
3	5940	6300	19700	5900	36200	15600	12500*	10100	10500	11100	12000	8400
4	5940	6350	11200	5840	18800	15500	12500	9880	10400	11000	11900	8230
5	6030	6380	8840	5810*	13900	15500	12000	9830	10400	11000	11900	8230*
6	6460	6450	7700	5760	11500	16000	11600	9990	10300	11000	11900	8230
7	6660	6580	7030	5810	10700	15600	11100	10500	10200	11000	11900	8220
8	6600	6550	6480	5670	9600	15600	10600	10100	10100	11200	11900	7910
9	6560	6510	6170*	5620	24100	19100	10300	9980	9910	11500	11900	7820
10	6540*	6520	6030	5680	39500	17400	9990	10100	9820	11500*	11900	7810
11	6510	6620	5840	5700	36400	16900	9810	10300	9720	11500	11800	7820
12	6140	7040	5700	5540	35900	16600	9710	10500	9690	11400	11900	7760
13	6060	8810	5580	5460	26800	16400	9740	10100	9540	11400	11900	7490
14	5960	10900	5420	5420	25900	16400	9460	9630	9650	11400	11900	7360
15	5950	7110	5510	5360	27200	26300	9250	9500	9820	11500	11800	7380
16	5920	6060	7670	5210	30100*	24600	9180	9410	10200	11400	11700	7460
17	5840	5620	15500	5200	24600	30800	9130	9380	10200	11400	11000	7410
18	5810	5990	22700	5160	22600	25300	9230	9370	10200	11400	10900	7300
19	5840	6710	13900	5100	21200	21600	9670	9440	10100	11500	10800	7300
20	5890	5910	10600	5070	20200	23400	9670	9550	10400	11700	10800	7200
21	5850	5630	8930	5080	19600	21600	9770	9550	10800	11800	10800	7160
22	5960	5490	8050	5010	19200	20200	10200	9510	10900	11800	10700	7150
23	6010	5150	7560	5110	18800	20500	10800	9420	11200	11900	10700	7070
24	6160	5210	7160	5080	18500	21400	11400	9340	11300	11900	10700	7070
25	6120	8260	6870	5070	18200	24500	10300	9220	11300	11900	10600	7090
26	6170	26800	6550	5910	17900	18900	9760	9220	11300	11900	10300	7100
27	6110	11400	6280	7450	17800	21100	9570	9300	11300	11900	10200	7050
28	6170	7660	6040	6810	17700	16200	9680	9140	11200	11900	9790	7090
29	6130	6570	5870	9100		13900	9850	9070	11200	11900	9690	7050
30	6190	6440	5750	23800		13000	10300	9170	11100	12000	9410	7040
31	6170		5620	41100		12600		9410		12000	9230	
Mean	6112	7454	11300	7432	23730	18880	10390	9704	10430	11520	11160	7603
Max Mean	6660	26800	54000	41100	43300	30800	12500	10500	11300	12000	12000	9150
Min. Mean	5810	5150	5420	5010	9600	12600	9130	9070	9540	11000	9230	7040
Ac.-Ft.	375800	443500	695100	457000	1318000	1161000	618000	596600	620700	708100	686100	452400

E - Estimated NR - No Record

Total Discharge in Acre-Feet 8132000

* Discharge measurement (or observation of no flow) made on this day.

TABLE 46

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT HAMILTON CITY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5430	5370	32900 E	5530	48300	17500*	12100	7820	7150*	8500	9260*	7300
2	5450	5410*	66300 E	5680	34900	16000	11900	7880*	7830	8480	9220	7010
3	5430	5400	21600	5760	39000*	15700	12100*	7640	8150	8490	9240	6690
4	5490	5480	12700	5730	20100	15600	11800	7390	8130	8440	9310	6580
5	5540	5530	9360	5690*	14800	15600	11500	7230	8080	8490	9320	6610*
6	5750	5580	7860	5700	12400	15900	11000	7330	8010	8510	9350	6590
7	5950	5630	7150	5720	11300	15700	10300	7810	7920	8490	9300	6640
8	5990	5650	6670*	5680	10300	15500	9630	7660	7740	8600	9210	6460
9	6010	5640	10100	5650	18000	18100	9050	7450	7570	8870	9170	6340
10	5930*	5640	6190	5710	41700	17500	8600	7470	7480	8880*	9190	6390
11	5910	5750	6040	5740	32200	16900	8400	7800	7370	8840	9220	6440
12	5670	6090	5910	5690	38700	16600	8030	7970	7350	8780	9230	6390
13	5520	7300	5800	5640	27600	16300	7680	7660	7190	8730	9320	6260
14	5450	10700	5680	5550	25200	16200	7340	7200	7080	8770	9370	6160
15	5350	7340	5640	5550	26000	23300	7110	7050	7260	8770	9300	6240
16	5260	6130	6720	5500	29900	24500	6820	6860	7480	8770	9290	6300
17	5230	5770	12400	5450	25100	28100	6720	6810	7690	8800	8630	6320
18	5170	5850	21900	5460	22700	25500	6680	6850	7660	8790	8430	6380
19	5140	6460	14700	5440	21300	21200	6930	6970	7520	8660	8440	6370
20	5140	6000	11300	5420	20400	21800	7120	7100	7670	9030	8490	6350
21	5140	5730	9280	5410	19800	21100	7080	7120	8110	9070	8510	6320
22	5240	5630	8160	5410	19300	19600	7500	7090	8240	9040	8400	6270
23	5290	5410	7490	5400	19000	19600	7940	7020	8540	9090	8370	6230
24	5300	5430	7020	5440	18700	20000	8830	6860	8740	9150	8450	6200
25	5290	6110	6730	5440	18400	23200	7900	6740	8750	9160	8340	6280
26	5260	24500	6440	5820	18200	18900	7210	6720	8750	9150	8110	6240
27	5280	13100	6190	7670	18000	19900	6890	6770	8740	9190	8050	6120
28	5280	7900	5960	6930	17900	16400	6880	6730	8710	9160	7780	6080
29	5290	6610	5840	7940		14000	7200	6660	8610	9160	7660	6030
30	5310	6300	5730	23000		13000	7510	6650	8560	9200	7530	6050
31	5340		5650	34400		12600		6890		9270	7350	
Mean	5446	6981	11340	7263	23900	18450	8525	7200	7936	8849	8737	6388
Max. Mean	6010	24500	66300	34400	48300	28100	12100	7970	8750	9270	9370	7300
Min. Mean	5140	5370	5640	5400	10300	12600	6680	6650	7080	8440	7350	6030
Ac-Ft.	334900	415400	697000	446600	1327000	1134000	507300	442700	472200	544100	537200	380100

E - Estimated NR - No Record

Total Discharge in Acre-Feet 7238000

* Discharge measurement (or observation of no flow) made on this day.

TABLE 47

DAILY MEAN DISCHARGE
GRINDSTONE CREEK NEAR ELK CREEK

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.3	607 E	26	522	113	265	146	64	9.7	1.4	0.9
2	0.1	0.3	235*	28	1010 E	110	324	137	64	8.8	1.3	0.7
3	0	0.5	99	27	655 E	102	353	132	68	8.6	1.1	0.7
4	0	0.5	64	25	380	100	337	123	76	7.6	0.6	0.8
5	0.1	0.3	53	25	268	93	303	104	69*	8.7	0.7	0.8
6	0.3	0.4	48	24	220	103	261	102	67	8.5	0.8	0.8
7	0.2	0.4	46	22	178	80	224	107	61	8.0*	0.8	0.8
8	0.1	0.5	42	24	158	97	196	96	58	7.2	1.6	0.7
9	0.2	0.7	42	22	796 E	125	183	94*	56	6.7	1.6*	0.6
10	0.2	0.7	39	23	602 E	128	181	103	52	6.0	1.6	0.5
11	0.2	1.2	37	23	658	151	157	115	51	5.3	2.0	0.6
12	0.1	3.4	37	22	495	148	164	129	48	4.5	1.9	0.6
13	0.1	20	36	21*	383	136	152*	123	44	5.6	2.4	0.7
14	0.1	16	35	20	466	185	140	99	42	3.9	1.6	0.8
15	0.2	11*	39	19	470	353*	138	102	39	2.6	1.4	0.7
16	0.1	7.3	78	19*	403	279	134	104	34	3.2	1.4	1.8
17	0.1	6.9	771 E	18	335	387	139	98	28	3.6	1.2	2.5
18	0.1	35	517 E	19	270	309	133	98	29	2.9	1.1	1.0
19	0.2	21	256	20	238	317	127	96	28	2.7	1.1	0.9
20	0.1	9.1	162	17	202	389	115	106	25	2.2	1.1	0.9
21	0.2	6.9	120*	17	204*	315	121	102	25	1.7*	1.0*	1.2
22	0.2	10	97	15	192	342	134	87	23	0.8	0.9	1.2
23	0.2	5.5	78	19	171	387	133	76	20	0.8	0.6	1.1
24	0.2	53	63	22	154	358	129	73	16	0.8	0.6	1.1
25	0.3	58	53	23	147	314	127	72	16	0.7	0.7	1.2
26	0.3	49	40	195	133	292	136	72	15	1.1	1.1	1.1
27	0.3*	20	38	128*	129	296	139	64	13	1.7	1.1	1.1
28	0.2	11	34	69	120	264	143	66	10	1.4	1.1	0.9
29	0.3	8.0	31	280		243	152	71	11*	1.5	1.1	0.8
30	0.2	9.1	30	360		247	152	68	10	1.4	1.0	0.8
31	0.2		26	1130 E		246		66		1.3	1.0	
Mean	0.2	12.2	124	87.2	356	226	180	97.8	38.7	4.2	1.2	0.9
Max. Mean	0.3	58	771	1130	1010	389	353	146	76	9.7	2.4	2.5
Min. Mean	0	0.3	26	15	120	80	115	64	10	0.7	0.6	0.5
Ac-Ft.	10	726	7642	5359	19750	13900	10700	6012	2305	257	73	56

E - Estimated NR - No Record

Total Discharge in Acre-Feet 66790

* Discharge measurement (or observation of no flow) made on this day.

TABLE 48

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK NEAR CHICO

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0•	0.2	88	3.1	117	13	33	8.3	4.7			
2	0	0	43	3.0	142	12	28	7.5	3.9			
3	0	0.1	24	3.0	86	11	25	6.7	1.4	•		
4	0	0.3	15	2.9	56	9.8	23	5.6	0			
5	0	0.5	11	2.7	41	10	20	5.7	0			
6	0	0.6	8.3	2.6	35	9.8•	19	6.0	0			
7	0.7	0.7	6.6	2.8	33	9.0	17	6.6	0		•	
8	0.5	1.3	5.8	3.7	32	12	14	5.7	0•			
9	0.2	1.0•	4.9	3.8	320	18	14	5.6	0			
10	0.1	1.2	4.5	3.5	156	13	12	5.8•	0			
11	0.3	3.1	4.3	3.2	137	12	12•	5.5	0			
12	0.4	5.6	3.6•	3.0•	95	11	13	5.3	0	N	N	N•
13	0.4	23	3.7	3.2	72	11	13	4.6	0	0	0	0
14	0.3	8.6	3.5	3.5	57	15	11	4.4	0			
15	0.2	4.7	4.0	3.7	90•	84	10	4.0	0			
16	0.2	3.6	18	3.5	70	53	10	3.8	0		•	
17	0.2	3.1	25	3.3	55	113	11	3.5	0	•		
18	0.3	7.1	14	3.7	47	59	10	3.6	0			
19	0.3	5.2	11	3.7	39	53	9.2	3.5	0			
20	0.3	3.6	9.4	3.2	34	58	8.6	3.4	0			
21	0.3	3.0	7.3	3.0	30	44	10	3.7	0			
22	0.3	2.7	6.2	3.7	27	40	14	3.4	0			
23	0.2	2.5	5.6	4.1	24	75	12	3.4	0			
24	0.2	2.3	5.0	4.2	21	90	10	3.1	0			
25	0.4	60	4.7	3.9	18	83	9.4	2.8	0			
26	0.5	78	4.5	7.3	16	82	8.7	2.8	0			
27	0.5	18	4.2	9.6	14	69	8.0	2.8	0			
28	0.5	9.7•	3.8	7.1	14	59	7.7	2.6	0			•
29	0.4	7.3	3.5	38		48•	7.5	2.7	0			
30	0.3	8.8	3.5	87		41	7.5	3.2	0			
31	0.3		3.5	522•		35		3.3				
Mean	0.3	8.9	11.6	24.4	67.1	40.4	13.6	4.5	0.3	0	0	0
Max. Mean	0.7	78	88	522	320	113	33	8.3	4.7	0	0	0
Min. Mean	0	0	3.5	2.6	14	9.0	7.5	2.6	1.4	0	0	0
Ac.-Ft.	16	527	713	1498	3725	2484	808	276	20	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 10070

• Discharge measurement (or observation of no flow) made on this day.

TABLE 49

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK DIVERSION NEAR CHICO

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0				0			
2				0	0				0			
3				0	0				0	•		
4				0	0				6.4			
5				0	0				8.6			
6				0	0				11			
7				0	0				12		•	
8				0	0				6.5•			
9				0	0.2				7.2			
10				0	0				7.2			
11				0	0				5.6			
12	N	N	N	0	0	N	N	N	4.4	N	N	N•
13	0	0	0	0	0	0	0	0	5.5	0	0	0
14				0	0				1.7			
15				0	0				1.9			
16	F	F	F	0	0	F	F	F	0	F	F•	F
17	L	L	L	0	0	L	L	L	0	L•	L	L
18	0	0	0	0	0	0	0	0	0	0	0	0
19	W	W	W	0	0	W	W	W	0	W	W	W
20				0	0				0			
21				0	0				0			
22				0	0				0			
23				0	0				0			
24				0	0				0			
25				0	0				0			
26				0	0				0			
27				0	0				0			
28				0	0				0			•
29				0					0			
30				0					0			
31				26								
Mean	0	0	0	0.8	0	0	0	0	2.6	0	0	0
Max. Mean	0	0	0	26	0.2	0	0	0	12	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	52	0	0	0	0	155	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 207

• Discharge measurement (or observation of no flow) made on this day.

TABLE 50

DAILY MEAN DISCHARGE
BIG CHICO CREEK AT CHICO

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	4.2	345	26	230	57	163	66	32	5.6	0	0
2	1.8	3.8	344	25	159	52	149	63	29	4.7	0	0
3	2.1	5.6	231	25	131	48	140	56	27	2.7*	0	0
4	2.0	5.6	145	24	84	44	134	49	26	4.9	0	1.4
5	2.7	5.2	114	22	51	47	126	47	11	3.4	0	0
6	6.1	5.1	67	24	38	60*	120	49	18	2.3	1.3	0
7	13	7.4	5.5	22	28	54	111	52	18	2.8	0.4*	0
8	7.6	8.5	2.5	25	26	55	98	46	16*	3.0	0	0
9	7.9	6.9*	1.3*	28	175	119	83	41	16	4.7	0	0
10	6.6	6.1	0.4	27	229	122	75*	44*	16	3.6	0	0
11	7.5	11	0	27	196	119	70	50	18	1.5	0	0
12	7.5	22	0	30*	183	116	68	55	14	1.4	0	0.4
13	7.2	71	1.7	30	148	104	72	50	14	1.2	1.2	0
14	6.3	59	20	28	78	101	59	45	13	1.0	0.3	0
15	5.9	35	24	25	79	228	53	41	11	1.1	0	0
16	5.8	23	40	25	72	236	49	39	9.9	3.5	0	0.3
17	4.4	19	81	24	56	296	47	34	9.8	2.6	0	2.3
18	4.9	40	80	23	43	249	50	32	12	0	0	3.3
19	4.6	55	65	23	34	217	47	29	7.8	0	0	2.3
20	5.4	36	49	22	26	226	41	31	7.0	0	1.5	1.7
21	5.5	26	45	21	36	206	44	30	7.3	0	0	1.1
22	5.9	22	39	20	65	193	87	28	6.8	0	0	1.1
23	5.8	21	35	22	79	213	82	26	6.2	5.3	0	1.2
24	4.2	19	33	20	85	220	74	24	5.8	1.0	0	1.4
25	3.0	108	33	21	77	250	75	23	8.0	0	0	1.0
26	3.1	270	33	23	68	246	76	23	7.3	0	0	0.3
27	4.1*	145	30	26	61	258	74	22	4.8	0	1.4	0.3
28	4.6	94*	28	24	58	242	67	25	4.5	0	0	0.1
29	4.0	66	29	39		216*	63	19	4.5	0	0	0.7
30	4.5	55	26	88		195	66	21	5.1	5.1	0	0.8
31	3.7		24	416*		177		24		0.8	0	
Mean	5.1	41.8	63.6	39.5	92.7	160	82.1	38.2	12.9	2.0	0.2	0.7
Max. Mean	13	270	345	416	230	296	163	66	32	5.6	1.5	3.3
Min. Mean	1.2	3.8	0	20	26	44	41	19	4.5	0.8	0	0
Ac.-Ft.	315	2490	3910	2430	5147	9850	4885	2348	765	123	12	39

E - Estimated NR - No Record

Total Discharge in Acre-Feet 32310

* Discharge measurement (or observation of no flow) made on this day.

TABLE 51

DAILY MEAN DISCHARGE
LINDO CHANNEL NEAR CHICO

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	•	0	223	0	412	0	17					
2		0	209	0	288	0	10					
3		0	90	0	230	0	4.8			•		
4		0	34	0	170	0	1.2					
5		0	8.9	0	126	0	0					
6		0	5.4	0	106	0	0				•	
7		0	57	0	97	0	0					
8		0	47	0	84	2.1	0		•			
9		0	37*	0	304	4.0	0					
10		0	35	0	397	2.3	0*	•				
11		0	32	0	351	0.2	0					
12	N	0	29	0*	335	0	0	N	N	N	N	N*
13	0	0	24	0	241	0	0	0	0	0	0	0
14		0	0.3	0	182	0	0				•	
15		0	0	0	184	45	0					
16	F	0	0	0	176	67*	0	F	F	F	F	F
17	L	0	42	0	148	102	0	L	L	L*	L	L
18	0*	0	46	0	127	70	0	0	0	0	0	0
19	W	0	33	0	110	49	0	W	W*	W	W	W
20		0	21	0	96	54	0					
21		0	13	0	75	42	0*					
22		0	7.8	0	44	34	0					
23		0	2.9	0	26	44	0	•				
24		0	0.3	0	5.1	46	0					
25		0	0	0	2.6	68	0					
26		87	0	0*	0.8	64	0					
27		34	0	0	0.1	70	0					•
28		2.8*	0	0	0.3	62	0					
29		0	0	0		48*	0					
30		0	0	32		36	0					
31	•		0	730*		26						
Mean	0	4.1	32.2	24.6	154	30.2	1.1	0	0	0	0	0
Max. Mean	0	87	223	730	412	102	17	0	0	0	0	0
Min. Mean	0	0	0	0	0.1	0	0	0	0	0	0	0
Ac.-Ft.	0	246	1979	1511	8564	1856	65	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 14220

* Discharge measurement (or observation of no flow) made on this day.

TABLE 52

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT ORD FERRY

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5540	5470	21000	5970	56200	18200	13000	7660	7210	8640	9180	7320
2	5600	5560	72900 E	6120	35500	16900*	12700	7720	7780	8580	9090*	7120
3	5620	5530*	26300	6160	48100	16400	12700	7550*	8250	8570	9090	6750
4	5570	5460	14700	6110	25300	16200	12400*	7330	8300	8480	9160	6570
5	5630	5630	10600	6080	18000	16100	12000	7150	8240*	8510	9130	6610
6	5830	5660	8870	6040	14600	16300	11600	7190	8210	8500	9220	6560*
7	6000	5700	7940	6020	13200	16300	10900	7610	8120	8500	9200	6590
8	6060	5730	7320*	6000	11900	16000	10300	7680	7950	8530	9140	6490
9	6020	5740	6950	6030*	17200	18200	9740	7370	7770	8800	9130	6320
10	5940	5720	6710	6060	44900	18700	9320	7400	7690	8880	9160	6300
11	5920*	5810	6490	6080	32600	17600	8790	7740	7570	8840*	9160	6350
12	5820	6110	6290	6040	43100	17300	8390	7930	7540	8820	9150	6280
13	5570	6830	6140	5990	31300	17000	7990	7830	7400	8740	9240	6190
14	5510	10500	6030	5920	27200	16800	7670	7360	7210	8730	9250	6090
15	5420	8190	6010	5890	27600	21800	7400	7140	7390	8780	9200	6110
16	5330	6610	6770	5880	32100*	27100	7120 E	6990	7590	8790	9220	6260
17	5300	6080	11700	5830	27600	28600	6910 E	6870	7800	8750	8750	6460
18	5240	6010	22500	5780	24900	29700	6760 E	6900	7820	8790	8370	6210
19	5210	6540	16700	5800	23300	23800	7030	6940	7710	8680	8350	6220
20	5190	6270	12700	5770	22100	23000	7210	7100	7750	8930	8420	6190
21	5280	6000	10200	5740	21300	23500*	7060	7170	8130	9010	8390	6130
22	5300	5830	8980	5740	20500	21600	7440	7150	8350	9010	8350	6110
23	5340	5660	8210	5840	20000	21100	7860	7070	8520	9050	8300	6080
24	5390	5520	7650	5870	19600	21600	8680	6990	8790	9090	8370	6020
25	5400	5760	7230	5890	19200	24500	8090	6910	8810	9090	8260	6030
26	5410	23200	6940	6040	18900	21600	7380	6830	8800	9060	8170	6020
27	5420	16000	6690	8440	18500	21300	6940	6860	8790	9090	7960	5920
28	5430	8920	6460	7770	18300	18800	6840	6850	8770	9110	7850	5860
29	5430	7220	6280	7920		15600	7060	6790	8690	9060	7640	5820
30	5400	6710	6170	24300		14300	7270	6720	8580	9020	7530	5770
31	5440		6060	34500		13500		6970		9160	7330	
Mean	5534	7199	11790	7665	26180	19660	8818	7218	8051	8826	8670	6292
Max. Mean	6060	23200	72900	34500	56200	29700	13000	7930	8810	9160	9250	7320
Min. Mean	5190	5460	6010	5740	11900	13500	6760	6720	7210	8480	7330	5770
Ac.-Ft.	340300	428400	724900	471300	1454000	1209000	524700	443800	479100	542700	533100	374400

E - Estimated NR - No Record

Total Discharge in Acre-Feet 7526000

* Discharge measurement (or observation of no flow) made on this day.

TABLE 53

DAILY MEAN DISCHARGE
MOULTON WEIR SPILL TO BUTTE BASIN

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0									
2			18									
3			12									
4			0									
5			0									
6			0									
7			0									
8			0									
9			0									
10			0									
11			0									
12	N	N	0	N	N	N	N	N	N	N	N	N
13	0	0	0	0	0	0	0	0	0	0	0	0
14			0									
15			0									
16	F	F	0	F	F	F	F	F	F	F	F	F
17	L	L	0	L	L	L	L	L	L	L	L	L
18	0	0	0	0	0	0	0	0	0	0	0	0
19	W	W	0	W	W	W	W	W	W	W	W	W
20			0									
21			0									
22			0									
23			0									
24			0									
25			0									
26			0									
27			0									
28			0									
29			0									
30			0									
31			0									
Mean	0	0	1.0	0	0	0	0	0	0	0	0	0
Max. Mean	0	0	18	0	0	0	0	0	0	0	0	0
Min. Mean	0	0	12	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	60	0	0	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 60

TABLE 54

DAILY MEAN DISCHARGE
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5570					18300	13300	7280	6860	8010	8690	7060
2	5560					17700*	12900	7330	7210*	7990	8630*	6980
3	5590					16800	12800	7300*	7710	8020	8600	6710
4	5570					16500	12600*	7100	7850	7950	8630	6490
5	5600					16300	12300	6940	7850	7950	8630	6490
6	5710					16400	11900	6860	7770	7970	8690	6470*
7	5870					16500	11400	7140	7710	7970	8690	6490
8	6030					16300	10800	7380	7570	7980	8680	6490
9	6040					16800	10200	7190	7410	8170	8650	6300
10	5930	N	N	N	N	18800	9700	7050	7320	8350	8660	6340
		O	O	O	O							
11	5910*	T	T	T	T	17600	9220	7270	7190	8310*	8670	6350
12	5890					17300	8870	7510	7130	8260	8670	6390
13	5640					17000	8380	7620	7080	8230	8730	6290
14	5530	C	C	C	C	16800	8020	7300	6900	8230	8760	6210
15	5450	O	O	O	O	18000	7680	7030	6890	8270	8730	6170
		M	M	M	M							
16	5440	P	P	P	P	25100	7330	6930	7030	8370	8690	6280
17	5410	U	U	U	U	25100	7070	6740	7260	8310	8480	6610
18	5360	T	T	T	T	29600	6830	6760	7290	8270	8000	6480
19	5320	E	E	E	E	25600	6790	6760	7230	8200	7930	6430
20	5300	D	D	D	D	22500	6980	6800	7140	8270	7940	6370
21	5320					23400	6840	6940	7390	8470	7970	6310
22	5370					21700	7070	6890	7650	8470	7920	6320
23	5400					20600	7410	6850	7720	8530	7860	6300
24	5440					20900	7940	6840	8070	8560	7900	6250
25	5480					21900	8140	6700	8170	8580	7870	6190
26	5490					22800	7350	6600	8170	8570	7740	6280
27	5470					19900	6840	6620	8160	8570	7570	6180
28	5450					20000	6630	6660	8130	8590	7550	6080
29	5470					16600	6730	6580	8110	8550	7380	6070
30	5490					14700	6850	6530	8060	8570	7310	6050
31	5490					13900		6630		8640	7140	
Mean	5567					19400	8896	6971	7534	8296	8237	6381
Max. Mean	6040					29600	13300	7620	8170	8640	8760	7060
Min. Mean	5300					13900	6630	6530	6860	7950	7140	6050
Ac.-Ft.	342300					1193000	529300	428600	448300	510100	506500	379700

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 55

DAILY MEAN DISCHARGE
COLUSA WEIR SPILL TO BUTTE BASIN

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0		8630*							
2			7600		7200							
3			11900		9350							
4			0		4150							
5			0		0							
6			0		0							
7			0		0							
8			0		0							
9			0		0							
10			0		1250							
11			0		3970							
12	N	N	0	N	5350	N	N	N	N	N	N	N
13	O	O	0	O	3740	O	O	O	O	O	O	O
14			0		62							
15			0		0							
16	F	F	0	F	22	F	F	F	F	F	F	F
17	L	L	0	L	104	L	L	L	L	L	L	L
18	O	O	0	O	0	O	O	O	O	O	O	O
19	W	W	0	W	0	W	W	W	W	W	W	W
20			0		0							
21			0		0							
22			0		0							
23			0		0							
24			0		0							
25			0		0							
26			0		0							
27			0		0							
28			0		0							
29			0									
30			0									
31			0									
Mean	0	0	629	0	1565	0	0	0	0	0	0	0
Max. Mean	0	0	11900	0	9350	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	38680	0	86930	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 125600

* Discharge measurement (or observation of no flow) made on this day.

TABLE 56

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR DURHAM

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	43	880	185	1360	310	573	237	161	27	5.8	2.4
2	3.7	25	939	182	1160	319	562	234	156	25	5.8	1.7
3	4.1	58	530	177	1050	301	576	207	142	22*	5.6	1.6
4	9.8	77	358	175	868	289	574	199	137	25	5.3	1.8
5	9.8	64	293	169	753	303	555	188	129	26	4.4	1.6
6	37	49	262	168	718	309*	520	193	121	25	3.8	1.9
7	105	70	235	170	701	288	494	206	110	24	4.3*	8.0
8	43	60	218	173	671	286	481	193	105*	22	5.0	7.9
9	29	35*	201	190	1360	382	437	194	101	20	4.3	8.4
10	21	31	203	217	1440	355	398	228	93	22	4.5	8.2
11	17	53	194	205	1280	338	322	226	85	23	3.6	5.8
12	15	173	176*	194*	1170	324	361	234	87	13	3.0	6.0*
13	15	282	166	195	975	317	361	220	85	9.8	3.4	2.9
14	16	213	164	208	858	309	302	210	72	10	3.4	2.7
15	36	151	167	218	922	845	276	202	62	9.9	6.3	2.7
16	32	102	229	233	911	785	265	206	54	10	3.1	2.8
17	33	92	413	248	815	874	265	195	56	8.8*	3.0	3.6
18	20	186	408	253	739	724	273	193	40	7.5	2.4	5.4
19	15	222	345	255	694	633	267	196	43	8.2	3.1	4.8
20	15	151	301	275	663	735	244	203	50	8.0	2.9	3.9
21	7.8	122	276	308	593	669	239	198	43	7.7	2.7	5.3
22	6.3	106	259	310	551	608	324	206	40	7.6	2.3	9.6
23	13	78	248	329	499	812	293	197*	35	8.3	6.3	15
24	17*	106	240	348	462	834	268	180	26	8.4	6.7	13
25	22	295	222	368	444	865	264	174	24	6.2	7.2	12
26	40	795	211	418	409	806	258	174	25	5.4	5.8	9.7
27	35	338	203	529	363	794	256	170	28	4.5	5.3	6.8
28	32	234*	201	527	363	742	241*	155	20	4.4	2.3	3.7
29	75	188	195	641		699	232	153	23	8.9	2.3	1.6
30	64	187	185	832		659	234	154	25	6.1	2.6	1.4
31	69		175	2330*		615		159		6.1	2.4	
Mean	27.8	153	294	356	814	553	357	196	72.6	13.5	4.2	5.4
Max. Mean	105	795	939	2330	1440	874	576	237	161	27	7.2	15
Min. Mean	3.7	25	164	168	363	286	232	153	20	4.4	2.3	1.4
Ac.-Ft.	1709	9096	18040	21880	45210	33980	21250	12070	4320	833	256	322

E - Estimated NR - No Record

Total Discharge in Acre-Feet 169000

* Discharge measurement (or observation of no flow) made on this day.

TABLE 57

DAILY MEAN DISCHARGE
CHEROKEE CANAL NEAR RICHVALE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.9	15	348	46	652	62	72	39	100	16	11	36
2	9.0	11	305	46	1060	61	70	50	98	18	11	35
3	9.4	10	129	46	498	58	66	46	82	21*	10	34
4	8.0	11	89	47	231	57	67	46	79	29	12	30
5	8.3	NR	74	45	160	59	61	43	67	21	14	22
6	8.5	NR	66	44	132	72	56	46	65	15	14	29
7	9.2	NR	59	44	118	59	49	38	62	16	18*	36
8	9.6	NR	56	54	105	59	46	49	61*	24	21	58
9	7.7	21	54	60	2110	202	45	57*	63	30	19	27
10	16	25	53	53	908	79	43	43*	62	30	16	17
11	21	26	54	49	674	65	41*	45	57	25	15	12
12	20	32	50	48*	349	60	43	46	52	24	13	11*
13	13	44	48	48	207	59	48	49	52	20	12	8.8
14	12	NR	44	47	160	58	43	48	52	16	13	8.8
15	13	NR	48	46	206*	826	42	62	48	20	16	7.3
16	9.4	NR	70	47	226	255*	37	48	44	20	21	7.2
17	8.2	NR	367	46	141	676	40	51	44	21*	23	7.2
18	12	42	111	46	116	184	30	50	43	23	22	6.1
19	8.1	46	81	46	103	119	36	49	45	22	19	5.9
20	8.2	36	69	45	94	189	43	50	42	17	18	5.5*
21	9.6	33	65	45	85	121	45	49	26	12	18	4.8
22	13	31	62	46	81	101	41	46	30	13	19	5.3
23	11	32	57	46	77	197	48	50	31	16	15	7.4
24	9.2	32	54	47	70	258	47	51	41	16	13	7.0
25	6.1	57	53	47	69	359	43	55	47	19	13	6.4
26	7.7	781	51	58	69	208	42	60	48	21	12	4.6
27	8.8	166	51	89	66	196	48	59	45	25	10	3.9
28	15	57	50	61	63	120	54	56	42	24	11	3.6
29	17	47*	47	327		91*	44	57	41	16	16	3.1
30	17	57	47	617*		75	37	62	41	11	21	2.8
31	18		47	2180*		73		111		8.7	33	
Mean	11.4		89.0	146	315	163	47.6	52.0	53.7	19.7	16.1	15.1
Max. Mean	21		367	2180	2110	826	72	111	100	30	33	58
Min. Mean	6.1		44	44	63	57	30	38	26	8.7	10	2.8
Ac.-Ft.	698		5472	8957	17510	10030	2830	3195	3193	1209	990	898

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 58

DAILY MEAN DISCHAROE
BUTTE SLOUGH AT OUTFALL OATES

In second-feet

Oate	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	102	579	352	0	0	352	100	692	68	0	383
2	152	103	0	340	0	0	377	85	828	68	0	367
3	140	103	0	321	0	0	321	89	1020	67	0	372
4	120	103	0	377	0	0	296	91	965	45	0	304
5	118	105	1650	371	0	0	327	92	949	14	46	228
6	125	104	1540	365	811	0	340	67	906	7.6	55	220
7	127	104	1610	346	1230	0	434	98	837	0	57	199
8	119	106	1560	409	528	0	509	103	677	0	60	197
9	117	107	1330	541	1090	0	711	105	612	0	60	212
10	112	105	1010	667	0	0	491	157	593	0	80	258
11	99	104	830	742	0	0	541	200	484	0	82	309
12	94	106	755	749	0	0	547	266	289	0	78	317
13	100	105	616	704	0	0	535	318	211	0	78	362
14	120	631	509	736	0	0	465	390	200	0	81	447
15	126	205	393	635	0	0	421	507	170	0	80	436
16	125	554	356	598	0	0	440	545	99	0	64	439
17	117	421	322	572	0	0	440	610	84	0	59	448
18	87	509	0	554	0	0	300	627	82	0	69	417
19	91	509	0	528	0	0	212	656	81	0	95	431
20	91	673	0	503	0	0	139	682	81	0	105	422
21	92	535	302	484	0	0	148	735	80	0	118	392
22	97	547	484	428	0	0	140	730	40	0	159	362
23	98	516	547	453	0	0	137	742	30	0	165	506
24	102	503	503	484	0	0	140	862	43	0	158	494
25	102	554	472	497	0	0	114	802	58	0	162	339
26	104	541	453	459	0	0	121	790	91	0	179	302
27	105	0	377	220	0	0	102	764	93	0	182	249
28	104	314	333	472	0	0	94	688	79	0	209	171
29	104	906	396	541		0	103	678	64	0	240	151
30	104	830	365	352		126	100	673	67	0	300	124
31	102		384	0		277		684		0	353	
Mean	109	337	570	477	131	13.0	313	450	350	8.7	109	329
Acr-Ft	6700	20040	35060	29360	7258	799	18640	27640	20840	536	6692	19550

E — Estimated NR — No Record

Total Discharge in Acre-Feet 193100

TABLE 59

DAILY MEAN OISCHARGE
BUTTE SLOUGH AT MAWSON BRIDGE

In second feet

Oate	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67	125	189	56	1490	1110	972	170	365	265	212	224
2	131	131	716	56	4000	1050	866	173	370	248	213	207
3	59	135	2970	59	6810	992	803	184	384	231	229*	190
4	31	138	4680	60	9560	924	766	185	386	210	253	163
5	22	145	3240	60	7050	883	707*	175	382	200	263	154
6	28	154	1910	59	4420	840	639	184	350	177	245	182
7	41	162	1220	56	3330	806	578	203	345	176	257	146*
8	46	171	814	62	2390	724	523	245	316	190	271	138
9	44	179	513	83	1810	704	413	270	322	213	273	153
10	39	176	276	128*	1990	725	311	279	345	229	286	168
11	28	171	208	154	2800	697	261	296	279	236	259	162
12	18	187	179	160	4150	683	239	284	274	221*	243	159
13	15	211	145	146	5910	690	211	312	296	221	248	180
14	18	214	111	144	5210	706	166	311	264	215	266	183
15	22	226	107	128	4050	750	138	331*	246	223	265	156
16	26	162	154*	115	3510	952	99	329	240	252	249	151
17	35	107	213	109	2970	1120*	92	338	259	249	268	158
18	70	93	538	105	2620	1230	82	326	273	241	279	163
19	83	86	859	97	2360	1290	87	332	277	234	280	155
20	83	78	911	88	2180*	1310	129	332	271	233	283	143
21	90	73	649	78	2010	1320	151	355	266	225	294	123
22	106	72	343	67	1860	1320	138	350	263*	191	288	156
23	120	75	242	59	1730	1320	149	357	283	170	255	142
24	129	80	193	60	1590	1310	184	383	282	171	244	127
25	130	86	152	62	1480	1320	216*	349	287	169	276	97
26	136*	153	125	72	1360	1330	170	351	280	167	287	74
27	140	854	104	95	1270	1360	134	322	253	171	280	59
28	139	918	85	147	1190	1370	143	308	241	184	272	37
29	137	397	72	144		1370	168	344	266	187	267	25
30	139	223	66	342		1320	177	307	267	192	269	18
31	130		60	1210		1110		312		198	242	
Mean	74.3	199	711	138	3254	1053	324	290	298	209	262	140
Max. Mean	140	918	4680	1210	9560	1370	972	383	386	265	294	224
Min. Mean	15	72	60	56	1190	683	82	170	240	167	212	18
Ac-Ft.	4566	11870	43720	8452	180700	64730	19260	17850	17720	12870	16100	8317

E — Estimated NR — No Record

Total Discharge in Acre-Feet 406200

* Discharge measurement (or observation of no flow) made on this day.

TABLE 60

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT MERIDIAN

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5570					18900	14300	7240	7310	7730	8020	7140
2	5590					18500	13800	7430	7640•	7720	8020	7180
3	5660					17600•	13500	7470	8180	7700	8000•	6980
4	5620					17000	13300	7280•	8480	7670	8020	6710
5	5610					16800	13000•	7130	8500	7590	8090	6560
6	5700					16700	12700	6990	8390	7580	8160	6560
7	5820					16800	12300	7160	8290	7570	8210	6550•
8	5990					16700	11700	7430	8080	7560	8180	6600
9	6010					16700	11100	7340	7800	7660	8150	6540
10	5970	N	N	N	N	18600	10600	7210	7650	7870	8200	6540
		O	O	O	O							
11	5910	T	T	T	T	18500	10000	7310	7540	7900	8240	6610
12	5880					17900	9660	7620	7280	7840•	8270	6690
13	5710•					17500	9220	7840	7120	7760	8310	6650
14	5560	C	C	C	C	17200	8770	7760	6960	7740	8340	6600
15	5490	O	O	O	O	17400	8410	7470	6850	7750	8360	6560
		M	M	M	M							
16	5510	P	P	P	P	22300	8120	7360	6900	7840	8290	6640
17	5480	U	U	U	U	24700	7810	7250	7020	7810	8220	6880
18	5420	T	T	T	T	27400	7560	7220	7110	7790	7790	6950
19	5370	E	E	E	E	26600	7330	7210	7080	7750	7560	6870
20	5370	D	D	D	D	23900	7350	7230	6950	7700	7600	6810
21	5400					23700•	7290	7400	7030	7870	7660	6750
22	5420					23100	7330	7450	7330	7930	7680	6710
23	5470					21900	7590	7380	7430	7980	7650	6680
24	5500					21500	7930	7410	7670	8000	7680	6630
25	5560					21700	8420	7360	7860	7980	7720	6580
26	5570					23300	7820	7200	7940	7930	7620	6600
27	5560					21600	7220	7160	7910	7950	7550	6530
28	5560					21200	6910	7130	7870	7980	7480	6390
29	5580					18800	6890	7020	7830	7960	7400	6320
30	5620					16300	7010	6980	7790	7990	7310	6260
31	5590					15000		7000		7960	7270	
Mean	5615					19860	9498	7305	7593	7810	7905	6669
Max. Mean	6010					27400	14300	7840	8500	8000	8360	7180
Min. Mean	5370					15000	6890	6980	6850	7560	7270	6260
Ac.-Ft.	345300					1221000	565200	449100	451800	480200	486000	396800

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement (or observation of no flow) made on this day.

TABLE 61

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.8		0	7.5	32	15	0	76	70	37	61	56
2	7.8		0	7.5	30	36	0	95	78	52	61	56
3	7.2		0	7.5	50	11	28	104	76	46	59	60
4	6.6		0	5.7	31	0	10	95	62	45	57	58
5	6.0		0	5.7	32	0	0	87	45	42	52	58
6	4.8		21	5.7	34	24	0	67	37	51	41	66
7	3.9		0	5.7	36	28	0	72	41	56	46	75
8	5.4		0	5.7	37	0	0	74	33	57	62	79
9	6.0		0	5.7	38	0	0	69	37	62	58	87
10	2.9		0	5.7	63	27	0	71	42	56	54	82
11	5.4		0	3.8	31	19	0	77	44	52	49	81
12	5.4		0	3.8	31	0	0	103	43	46	50	80
13	4.8	N	46	2.8	42	0	0	99	51	49	68	78
14	6.6	O	37	0	31	27	2.6	100	37	54	70	66
15	4.8		27	0	31	9.9	19	97	12	55	65	61
16	4.8	F	22	0	39	26	12	100	22	50	44	57
17	2.9	L	0	0	43	8.6	0.8	98	24	46	35	50
18	2.9	O	0	0	31	14	0	91	7.9	48	36	44
19	1.0	W	0	0	32	0	0	86	3.5	53	40	44
20	0.8		0	0	32	24	0	84	10	52	44	44
21	0		0	0	10	28	0	90	11	51	66	42
22	0		0	0	0	0	13	97	13	53	64	37
23	0		0	0	24	25	12	91	9.9	57	63	33
24	0		0	0	23	9.1	16	74	2.7	60	70	28
25	0		0	20	35	0	47	78	0	60	73	25
26	0		13	68	22	21	81	77	1.6	56	76	20
27	0		19	9.1	0	22	53	77	9.5	53	81	20
28	0		19	0	0	0	50	78	28	55	80	20
29	0		13	0		0	64	79	40	58	81	15
30	0		9.4	0		27	70	83	43	58	73	15
31			9.4	26		10		83		62	62	
Mean	3.2	0	7.6	6.3	30.0	13.3	15.9	85.6	31.1	52.6	59.7	51.2
Ac-Ft	196	0	468	389	1666	816	949	5262	1853	3237	3671	3049

E – Estimated NR – No Record

Total Discharge in Acre-Feet 21560

TABLE 62

DAILY MEAN DISCHARGE
TISDALE WEIR SPILL TO SUTTER BYPASS

In second feet

Date	1960			1961								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0		3760	0						
2			670		6980*	0						
3			7620		6980	0						
4			2260		7670	0						
5			0		1960	0						
6			0		3.0	0						
7			0		0	0						
8			0		0	0						
9			0		0	0						
10			0		212	0						
11			0		5720	0						
12	N	N	0	N	6070	0	N	N	N	N	N	N
13	O	O	0	O	6750	0	O	O	O	O	O	O
14			0		4580	0						
15			0		2640	0						
16	F	F	0	F	2860	3.0	F	F	F	F	F	F
17	L	L	0	L	4460	452	L	L	L	L	L	L
18	O	O	0	O	2570	2580	O	O	O	O	O	O
19	W	W	0	W	853	2540	W	W	W	W	W	W
20			0		196	436						
21			0		0	137						
22			0		0	66						
23			0		0	0						
24			0		0	0						
25			0		0	0						
26			0		0	35						
27			0		0	0						
28			0		0	0						
29			0			0						
30			0			0						
31			0			0						
Mean	0	0	340	0	2295	202	0	0	0	0	0	0
Max. Mean	0	0	7620	0	7670	2580	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	20930	0	127500	12390	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 160800

* Discharge measurement (or observation of no flow) made on this day.

TABLE 63

DAILY MEAN DISCHARGE
SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 PUMPING PLANT

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5270					19000	14000	5250	5770	6190	6540	5930
2	5310					18700	13400	5600 E	6090	6240	6580	5860
3	5390					17800	13000	5800 E	6430	6240	6590	5920
4	5420					17000	12700	5700 E	6990	6200	6610	5680
5	5420					16700	12500	5600 E	7100	6140	6680	5540
6	5500					16400	12100	5400 E	7080	6080	6810	5480
7	5610					16500	11700	5400 E	6950	6100	6780	5500
8	5790					16600	11100	5800 E	6890	6080	6740	5590
9	5890					16400	10600	5900 E	6660	6150	6690	5720
10	5980					17600	9860	5700 E	6400	6330	6670	5830
11	5890	N	N	N	N	18900	9330	5700 E	6410	6340	6790	5860
12	5890	O	O	O	O	18100	9050	6100 E	6150	6260	6830	5990
13	5800	T	T	T	T	17500	8530	6600 E	5840	6190	6890	6100
14	5600					17200	8100	6700 E	5700	6130	6870	6090
15	5500	C	C	C	C	17200	7670	6400 E	5470	6150	6890	6090*
		O	O	O	O							
16	5470	M	M	M	M	20300	7280	6000 E	5470	6280	6860	6220
17	5450	P	P	P	P	25000	6770	5900 E	5590	6310	6810	6350
18	5430	U	U	D	U	25900	6430	5800 E	5650	6270	6560	6670
19	5400	T	T	T	T	26600	6130	5800 E	5640	6230	6190	6620
20	5300	E	E	E	E	25000	6090	5900 E	5580	6230	6200	6570
		D	D	D	D							
21	5270					24000	6070	6100 E	5460	6300	6230	6490
22	5310					24300	6030	6300 E	5610	6440	6270	6430
23	5380					23000	6010	6200 E	5840	6500	6240	6440
24	5410					21900	6100	6100 E	5990	6510	6260	6420
25	5420					21800	6780	6100 E	6270	6470	6330	6410
26	5420					23400	6700	6000 E	6490	6520	6300	6420
27	5430					22900	5920	5910	6400*	6480	6300	6480
28	5410					21700	5340	5970	6350	6520	6150	6370
29	5410					19800	5150	5750	6310	6520	6100	6230
30	5430					16900	5300	5650	6300	6600	5970	6200
31	5460					15000		5630		6580	6000	
Mean	5505					19970	8525	5895	6163	6309	6507	6117
Max. Mean	5980					26600	14000	6700 E	7100	6600	6890	6670
Min. Mean	5270					15000	5150	5250	5460	6080	5970	5480
Ac.-Ft.	338500					1228000	507300	362500	366700	387900	400100	364000

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement made on this day.

TABLE 64

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	15	19 E	20	117	112	0	244	422	251	368	444
2	0	10	204	20	155	0	141	264	422	322	366	414
3	0	12	0	39	135	0	0	214	370	322	366	445
4	64	14	69	26	0	0	0	330	578	251	350	390
3	67	12	62	23	196	90	0	322	400	241	366	394
6	54	12	38	0	117	0	0	268	410	322	426	416
7	37	12	42	42	82	96	0	558	364	288	363	437
8	34	20	40	0	101	0	0	260	370	308	366	446
9	34	13	40	49	124	87	150	317	370	322	363	374
10	30	16	36	0	123	0	0	370	370	255	389	516
11	0	20	32	29	0	0	147	370	465	322	354	375
12	30	20	35	0	135	9.3	0	370	317	322	358	369
13	0	16	32	32	95	0	0	322	375	322	432	356
14	0	37	32	0	104	105	166	597	322	322	354	291
15	0	22	26	19	88	0	0	314	375	322	361	223
16	0	19	32	0	88	108	118	370	402	322	366	254
17	0	22	30	38	80	0	104	370	322	322	365	206
18	0	19	24	0	0	0	0	375	322	322	360	189
19	142	23	30	35	103	115	150	375	250	348	370	161
20	0	19	29	0	98	0	0	381	322	322	449	156
21	15	19	35	0	0	0	161	640	265	322	409	94
22	15	19	29	20	108	142	0	370	326	322	388	101
23	15	20	25	39	83	0	185	370	322	350	414	75
24	16	16	25	0	0	0	204	375	322	322	401	86
25	15	13	25	42	0	0	188	422	322	350	408	73
26	18	32	19	54	130	133	178	482	322	317	405	21
27	15	38	32	0	0	0	161	429	322	363	470	86
28	18	38	29 *	0	112	0	194	634	322	317	396 *	45
29	15	20	16	123		138	0	317	317	365	389	85
30	15	25	23	98		0	459	402	317	333	460	37
31	15		20	124		0		516		366	449	
Mean	21.4	19.8	36.5	28.1	84.8	36.6	90.2	385	357	318	390	252
Max. Mean	142	38	204	124	196	142	459	640	578	366	470	516
Min. Mean	0	10	0	0	0	0	0	214	250	241	350	21
Ac.-Ft.	1317	1176	2241	1730	4709	2252	5367	23700	21230	19550	23960	14990

E - Estimated NR - No Record

Total Discharge in Acre-Feet 122200

* Discharge measurement made on this dey.

TABLE 65

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15				RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	0.9	2.1	1.8	13.6	10.9	12.7	51.5	42.5	50.9	56.2	17.9
Ac-Ft	0	56	128	111	757	669	758	3164	2531	3132	3454	1068

E - Estimated NR - No Record

Total Discharge in Acre-Feet 15830

TABLE 66

DAILY MEAN DISCHARGE
STONE CORRAL CREEK NEAR SITES

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	•		0.2•	0	8.4	0.4	0.5	0.6	0.1			
2			0	0	72	0.5	0.5	0.6	0.1			
3			0	0	14	0.5	0.5	0.5	0.1			
4			0	0	4.7	0.5	0.5	0.4	0			
5			0	0	2.2	0.4	0.4	0.5	0•			
6			0	0	1.6	0.4	0.5	0.5	0			
7			0	0	1.2	0.4	0.5	0.5	0	•		
8			0	0	0.9	0.6	0.5	0.5	0			
9			0	0	8.0	0.7	0.6	0.5	0		•	
10			0	0	5.5	0.8	0.6	0.5	0			
11			0	0	2.3	0.7	0.6	0.5	0			•
12	N	N	0	0	1.7	0.6	0.6	0.6	0	N	N	N
13	O	O	0	0	1.3	0.5	0.6	0.4	0	O	O	O
14			0	0	1.0	0.6	0.6	0.3	0			
15		•	0	0	1.1	1.0	0.6	0.3	0			
16	F	F	0	0	1.1	0.8	0.7	0.2	0	F	F	F
17	L	L	0	0	0.9	1.3	0.7	0.2	0	L	L	L
18	O	O	0	0	0.7	1.0	0.7	0.3	0	O	O	O
19	W	W	0	0	0.7	0.8	0.7	0.2	0	W	W	W
20			0	0	0.7	0.6	0.7	0.2	0			
21			0	0	0.7	0.6	0.8	0.2	0			
22			0	0	0.8	0.6	0.9	0.2	0			
23			0	0	0.6	0.6	0.9	0.1	0			
24			0	0	0.5	0.7	0.9	0.1	0			
25			0	0.1	0.6	0.7	0.8	0.1	0			
26			0	6.8	0.6	0.6	0.8	0	0			
27	•		0	4.0•	0.5	0.6	0.7	0	0			
28			0	0.3	0.5	0.5	0.7	0	0			•
29			0	44		0.5	0.7	0	0			
30			0	21•		0.5	0.7	0	0			
31			0	32		0.6		0.1				
Mean	0	0	0	3.5	4.8	0.6	0.7	0.3	0	0	0	0
Max. Mean	0	0	0.2	44	72	1.3	0.9	0.6	0.1	0	0	0
Min. Mean	0	0	0	0	0.5	0.4	0.4	0	0	0	0	0
Ac.-Ft.	0	0	0	215	267	39	39	18	1	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 579

• Discharge measurement (or observation of no flow) made on this day.

TABLE 67

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT HIGHWAY 20

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	360	457	486	181	1980	216	294	506	1330	574	945	1030
2	325	471	1260	180	2090	212	348	711	1520•	544	952	1050
3	330	516	1340	188	2490	210	353	885	1570	584	974	939
4	312	472	1300	173	2310	207	349	913•	1460	559	992•	937
5	310	443	926	171	2080	205	526	923	1310	523	972	1060
6	351	499	606	163	1720	202	450•	889	1110	524	965	1120
7	337	514	452	166	1220	197	369	1100	975	531	1000	1230
8	318	492	347	214	855	194	341	1200	833	535	1070	1380•
9	306	467	293	262	1010	213	340	999	754	579	1110	1370
10	298	438•	258	266	1370	210	312	1240	722	626	1020	1320
11	287	462	249	274•	1300	206	322	1270	703	598	972	1330
12	304	591	250	251	1040	197	364	1280	711	608	1020	1320
13	301	659	243•	226	817	195	332	1320	598	605•	1070	1220
14	326	758	235	224	648	201	538	1310	556	574	1050	1160
15	328	836	223	210	561	260	554	1390•	536	566	1000	1110
16	323	737	229	182	697	320	379	1460	549	570	968	1020
17	343	517	273	171	829	362•	319	1470	521	586	935	1020
18	311	387	299	167	537	421	294	1460	502	624	915	881
19	337	312	278	167	409	347	287	1510	506	618	913	747
20	371	279	266	164	351•	276	250	1500	580	617	996	670
21	365	255	260	162	339	249	297	1470	556	669	1050	572
22	358	238	256	172	314	229	529	1450	593	715	1020	547
23	371	207	248	167	287	216	618	1390	590	751	995	521
24	410	209	239	179	263	200	636	1330	580	756	1020	500
25	425•	214	230	173	253	188	512	1260	612	831	1040	498
26	431	368	220	728	242	176	400	1170	672	843	997	449
27	441	368	208	1060	227	194	347	1080	672	838	1010	387
28	416	303	202	744	225	200	326	1070	620	849	1060	364
29	418	269	198	823		167	327	1070	628	864	1080	347
30	451	270	188	1860		166	425	1060	617	875	1050	330
31	467		184	1880		262		1150		933	1020	
Mean	356	434	395	385	945	229	391	1188	783	660	1006	881
Max. Mean	467	836	1340	1880	2490	421	636	1510	1570	933	1110	1380
Min. Mean	287	207	184	162	225	166	250	506	502	523	913	330
Ac.-Ft.	21880	25800	24290	23700	52490	14080	23280	73060	46580	40600	61850	52420

E – Estimated NR – No Record

Total Discharge in Acre-Feet 460000

• Discharge measurement (or observation of no flow) made on this day.

TABLE 68

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	483	628	324	186	0	0	458	170	1450	443	709	971
2	437	633	0	182	0	0	652	317	1370	397	763	1000
3	408	639	0	180	0	0	688	456	1610	321	749	996
4	402	644	0	184	0	0	678	708	1680	346	749	980
5	387	666	0	176	0	97	660	735	1640	399	754	988
6	384	682	512	172	0	476	670	700	1350	399	759	1090
7	405	687	828	162	0	502	696	739	1170	360	767 *	1300
8	427	682	690	170	0	395	704	1100	861	341	828	1350
9	415	676	531	205	608	502	714	1080	755	357	847	1560
10	375	785	302	264	0	0	618	1080	788	434	796	1560
11	375	602	254	279	0	0	451	1180	699	489	839	1710
12	360	565	245	279	0	0	235	1300	585	515	773	1740
13	360	621	243	269	0	0	466	1290	592	473	843	1660
14	346	809 *	248	254	0	0	426	1300	550	451	905	1510
15	355	803	162	233	0	0	546	1370	476	438	910	1420 *
16	349	795	155	220	0	0	555	1460	326	386	905	1360
17	332	858	173	196	0	0	422	1490	224	404	899	1310
18	236	618	165	178	0	0	137	1490	261	404	893	1090
19	71	480	0	170	0	0	60	1520	328	407	888	946
20	128	363	0	172	0	0	182	1550	392	416	893	932
21	562	316	0	176	0	0	203	1540	352	435	905	880
22	596	289	528	172	0	0	184	1540	289	462	1010	731
23	579	247 *	446	184	0	0	488	1530	275	554	1040	672
24	574	209	259	178	0	0	660	1330	334	603	960	555
25	585	205	222	196	0	0	583	1410	392	576	940	509
26	601	236	209	233	0	0	304	1430	388 *	618	953	522
27	612	0	218	787	0	0	152	1330	392	582	979	537
28	617	0	209 *	1010	0	0	152	1210	434	559	995	513
29	607	436	176	869		0	94	1260	451	563	995	790
30	601	537	188	1090		0	49	1240	447	566	989	565
31	617		194	644		0		1240		570	962	
Mean	438	524	241	312	21.7	63.6	430	1164	695	460	877	1058
Max. Mean	617	858	828	1090	608	502	714	1550	1680	618	1040	1740
Min. Mean	71	0	0	162	0	0	49	170	224	321	709	509
Ac.-Ft.	26950	31160	14840	19180	1206	3911	25560	71590	41380	28300	53940	62970

E – Estimated NR – No Record

Total Discharge in Acre-Feet

* Discharge measurement made on this day.

TABLE 69

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0.2	0	0	0	0.4	0.1	2.4	5.6	0	0	2.4	8.5
Ac-Ft	15	0	0	0	20	9	143	343	0	0	146	505

E – Estimated NR – No Record

Total Discharge in Acre-Feet 1181

TABLE 70

DAILY MEAN DISCHARGE
WADSWORTH CANAL NEAR SUTTER

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	53	119	31 E	248	51	40	85	266	50	69	108
2	87	57	136	31 E	303	47	38	108	264	41	63	104
3	83	72	90	31 E	259	44	36	90	247	28	62	92
4	76	74	74	32 E	158	41	33	93	222	54	64	98
5	71	86	59	32 E	126	43	30	57	182	64*	62	134
6	83	87	56	33 E	102*	37	33	35	179	56	79	166
7	87	62	48	33 E	92	17	47*	53	160	52	87	146*
8	88	62	45	33 E	83*	33	63	89	140	54	54	160
9	86	30	41	33 E	250	43	50	94	124	62	29*	175
10	87	7.3	36	33* E	221	41*	54	100	129	62	29	178
11	90	2.7	40	30	167	37	55	92*	135	59	50	166
12	104	3.0	38	28	137	35	63	114	122	57	73	206
13	100	11	37	27	115	35	70	123	102	42	60	243
14	91	14	33	26	105	34	73	144	94	45	68	236
15	83	7.3	35	26	118*	237*	98	148	65	48	80	220*
16	86	3.5	33*	25	169	133	117	136	52	52	54	225
17	90	4.6	44	25	115	194	77*	146	62	49	73	220
18	65	3.5	46	25	98	131	39	153	56	33	91	229
19	52	3.0	39	24	89	104	47	190	33	42	109	212
20	56	3.5	38	24	80	96	18	169	37	49	121	175
21	57	3.5	37	24	80	86	22	185	62*	33	126	165
22	76	3.0	33	24	75	78	13	165	53	10	95	158
23	91	2.4	33	23	70	76	18	179	34	27	121	155
24	88	3.0	31	24	66	72	37	203	59	29	127	168
25	90	6.8	33	23	62	71	60	159	98	24	109	168
26	97	59	33	25	59	65	70	135	86	27	85	154
27	77	45	32	25	55	61	86	166	77	20	83	137
28	56	25	31	24	52*	57	27	187	72	32	89	138
29	60	22	31	86		54	54	200	57	59	108	125
30	50	47*	30	178		51	77	201	49	67	119	113
31	59		30	319		31		227*		89	103	
Mean	79.2	28.8	46.5	43.8	127	68.9	52	136	111	46	82	166
Max. Mean	104	87	136	319	303	237	117	227	266	89	127	243
Min. Mean	50.	2.4	30	23	52	17	13	35	33	10	29	92
Ac.-Ft.	4867	1712	2858	2692	7049	4235	3064	8382	6581	2809	5042	9866

E - Estimated NR - No Record Total Discharge in Acre-Feet 59310

* Discharge measurement (or observation of no flow) made on this day.

TABLE 71

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	1954			1955								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	17 E	22	19	14	16
2							0	24	21	19	14	16
3							0	7.0	19	20 E	14	16
4							0	7.7	20	20	14	16 E
5							0	11	21 E	21	10	16 E
6							0	23	22	24	7.6	16
7							0	25	21	29	11 E	16
8							0	25 E	19	22	15*	17*
9							0	25	19	16	16	20
10							0	25	19	15 E	14	20
11							0	26	18	14*	11	21 E
12				N	N	N	0	26	18 E	11	11	22
13				O	O	O	0	24	18	19	14	22
14							0	26	12	20	14 E	0
15							0	27 E	16	17	15	0
16				F	F	F	0	28	15	16	16	0
17				L	L	L	0	5.6	15	16 E	16	0
18				O	O	O	0	19	12	15	16	0
19				W	W	W	0	23	15 E	14	18	0
20							0	26	19	14	17	0
21							0	25	15	15	16 E	0
22							0	21 E	15	14	16	0
23							8.0	17	13	14	17	0
24							6.3 E	14	12	14 E	18	0
25							4.6	15	12	14	17	0
26							5.2	19	10 E	14	16	0
27							15	20	8.5	14	16	0
28							9.6	19	8.5	14	16 E	0
29							9.5	20 E	8.7	14	16	0
30							11	20	17	18	16	0
31								20		16 E	16	
Mean				0		0	2.3 E	20 E	16 E	17 E	15 E	7.8 E
Ac.-Ft.				0	0	0	137 E	1250 E	953 E	1035 E	908 E	464 E

E - Estimated NR - No Record Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 72

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	19[illegible]			19[illegible]								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	12	13	21	15	27
2							0	12	13	21	16	26
3							0	12	14	25	19	25
4							0	8.5	16	24	18	25
5							0	24	15	24	20	25
6							0	24	16	25	21	30
7							0	24	16	24	22	33
8							0	22	17	23	23*	30*
9							0	22	17	21	30	30
10							0	22	17	22	26	29
11							0	21	18	20	32	31
12	N	N	N	N	N	N	0	20	17	23	32	28
13	O	O	O	O	O	O	0	20	14	25	32	28
14							0	20	13	24	34	29
15							0	20	11	25	39	30
16	F	F	F	F	F	F	0	20	11	25	47	31
17	L	L	L	L	L	L	0	19	12	24	44	30 E
18	O	O	O	O	O	O	0	19	14	23	44	29 E
19	W	W	W	W	W	W	0	19	14	23	44	29 E
20							0	19	14	22	44	28 E
21							0	18	17	18	47	28 E
22							0	17	17	18	50	27 E
23							0	17	16	19	24	27 E
24							9.5	17	15	19	24	26 E
25							8.1	17	13	21	28	26 E
26							6.6	15	7.4	20	27	25 E
27							5.0	15	16	19	27	25 E
28							3.4	15	15	15	26	24 E
29							5.4	15	17	15*	25	23 E
30							7.4	15	20	15	32	23 E
31								13		16	26	
Mean	0	0	0	0	0	0	1.5	18	15	21	30	28 E
Ac.-Ft.	0	0	0	0	0	0	90	1098	883	1307	1860	1640 E

E – Estimated NR – No Record

Total Discharge in Acre-Feet 6878

* Discharge measurement (or observation of no flow) made on this day.

TABLE 73

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	1956			1957								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22 E								23	19	53	92
2	22 E								33	21	73	96
3	21 E								21	34	77	87
4	21 E								28	41	88	80
5	20								36	36	75	84
6	20 E								23	30	69	77
7	19 E								18	30	71	76
8	19 E								19	30*	73	76
9	18 E								17	33	67	75
10	17 E								16	51	64	77
11	17 E								15	32	58	72*
12	16 E	N	N	N	N	N	N	N	19	60	75	71
13	16 E	O	O	O	O	O	O	O	14*	55	72	71
14	15 E								3.5	59	78*	70
15	15 E								16	64	78	72
16	14 E	F	F	F	F	F	F	F	30	89	103	72
17	14 E	L	L	L	L	L	L	L	18	71	98	56
18	13 E	O	O	O	O	O	O	O	16	67	88	53
19	13 E	W	W	W	W	W	W	W	17	64	77	60
20	12 E								18	62	74	44
21	11 E								24	47	72	36
22	11 E								26	68	75	30
23	10 E								26	88	64	22
24	9.8 E								22	84	59	20
25	9.[illegible]*								26	80	59	17
26	9								28	84*	69	14
27	9.[illegible]								27*	86	70*	1.4
28	9.[illegible]								28	82	83	0
29	13								26	73	86	0
30	0								23	58	83	0
31	[illegible]									37	110	
Mean	13.8 E	[illegible]	0	0	0	0	0	0	21.9	56.0	75.5	53.4
Ac.-Ft.	846 E		0	0	0	0	0	0	1302	3441	4643	3176

E – Estimated NR – No Record

Total Discharge in Acre-Feet 13410

* Discharge measurement (or observation of no flow) made on this day.

TABLE 74

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	1957			1958								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									0	25	14	12
2									0	31	16	12
3									0	25	17	12
4									0	24	17	12
5									0	22	9.7	12
6									0	21	7.8	12
7									0	20	17	11
8									0	18	21	11
9									0	12	20	11
10									0	11	17	16*
11									0	7.9	16	27
12	N	N	N	N	N	N	N	N	0	17	15	33
13	0	0	0	0	0	0	0	0	0	23	14	24
14									0	22	12	19
15									0	22	12	14
16	F	F	F	F	F	F	F	F	0	20	12	24
17	L	L	L	L	L	L	L	L	0	19	12	6.0
18	0	0	0	0	0	0	0	0	0*	16	12	0
19	W	W	W	W	W	W	W	W	0	11	9.2	6.0
20									12	14	5.4	11
21									21	15	3.3	18
22									23	15	6.2	24
23									24	14	17	11
24									23	15	21	22
25									25	15	19	6.0
26									18	16	15*	22
27									23*	14	13	22
28									25	11	13	23
29									26	7.5	12*	24
30									27	5.0	12	22
31										9.8	12	
Mean	0	0	0	0	0	0	0	0	8.2	17	14	16
Ac.-Ft.	0	0	0	0	0	0	0	0	490	1028	832	950

E - Estimated NR - No Record Total Discharge in Acre-Feet 3300

* Discharge measurement (or observation of no flow) made on this day.

TABLE 75

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13						0	14	26	14	18	36
2	6.0						0	21	26	18	18	25
3	11						0	23	23	18	18	26
4	30						0	22	17	17	18	28*
5	13						0	22	13	18	18	27
6	0*						0	22	16	18	23	25
7	7.0						0	35	19	23	22	23
8	14						0	39	13	25	21	26
9	14						0	29	9.9	23	20	29
10	18						0	24	7.1	21	20	28
11	14						0	24	5.2	20	10	25
12	14	N	N	N	N	N	0	24*	5.5	20	8.7	17
13	14	0	0	0	0	0	0	25	5.4	20	9.9	12
14	18						0	27	5.0	19	16	6.8
15	14						2.6	27	13	18	21	16
16	14	F	F	F	F	F	3.8	28	19	18	19	0
17	14	L	L	L	L	L	6.3	27	24	18	23	0
18	7.6	0	0	0	0	0	9.9	26	24	18	17	0
19	9.1	W	W	W	W	W	12	26	20	18	18	0
20	14						12	24	29	19	21	0
21	30						18	26	32	18	32	0
22	35						17	25	29	19	35	0
23	27						14	26	26	18	33	0
24	5.5						10	28	23	18	30	0
25	0						9.3	28	21	18	29	0
26	0						8.5	26	20	18	32	0
27	0						10	26	21	18	34	0
28	0						11	26	21	11	26	0
29	0						12	26*	15	8.3	25	0
30	0						14	27	14	19	28	0
31	0							26		21	32	
Mean	11.5	0	0	0	0	0	5.7	26	18	18	22	12
Ac.-Ft.	707	0	0	0	0	0	338	1585	1075	1129	1380	694

E - Estimated NR - No Record Total Discharge in Acre-Feet 6908

* Discharge measurement (or observation of no flow) made on this day.

TABLE 76

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	3.9	20	14	20	21
2							0	3.9	21	15	20	24
3							0	3.9	21	24	22	25
4							0	5.2	20	28	25	25
5							0	11	19	26	24	24
6							0	10	17	20	24	22
7							0	9.4	17	16	22	20
8							0	9.6	17	16	20	20
9							0	10	19	15	19	21
10							0	13	19	15	18	21
11							0	19	20	16	18	21
12							0	19	20	18	17	21
13	N	N	N	N	N	N	0	17	21	19	17	23
14	O	O	O	O	O	O	0	17	21	19	17	22
15							0	17	15	18	7.2	22
16	F	F	F	F	F	F	0	17	8.2	18	14	21
17	L	L	L	L	L	L	0	17	9.0	18	22	15
18	O	O	O	O	O	O	0	17	9.4	18	20	16
19	W	W	W	W	W	W	0	19	11	20	19	13
20							0	20	8.5	21	20	9.7
21							0	21	7.3	21	21	11
22							0	19	7.3	19	24	6.8
23							0	20	16	16	9.9	7.8
24							0	21	12	14	3.0	6.3
25							0	21	7.9	7.8	2.5	4.9
26							0	32	10	16	15	4.9
27							3.3	48	14	20	22	4.4
28							5.1	38	18	20	22	6.8
29							4.2	34	17	14	20	4.4
30							3.9	27	12	12	20	4.4
31								21		18	20	
Mean							0.6	18.1	15.2	17.8	18.2	15.6
Ac-Ft.							33	1113	902	1094	1120	929

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5191

TABLE 77

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1954			1955								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				20	25	13	0	18	21	23	37	29
2				16	29	11	0	28	29	23	37	40
3				2.8	23	11	0	17	29	23	37	40
4				5.3	20	11	0	18	29	23	26	40
5				18	23	8.9	0	18	29	41	26	40
6				20	25	8.9	0	18	19	34	26	40
7				23	23	11	0	18	18	34	26	40*
8				20	20	11	0	18	18	34	45*	55
9				18	23*	4.4	0	29	29	34	37	52
10				13	18	4.4	0	29	29	34	29	53
11				18	18	5.3	6.8	29	29	29*	29	52
12				23	18	7.9	4.7	29	29	29	30	50
13				20	18	5.3	4.7	29	22	41	37	50
14				25	16	7.9	4.7	29	30	40	37	56
15				25	11	5.3	4.7	29	30	33	41	57
16				25	16	0	4.7	28	41	34	40	47
17				25	18	0	4.7	28	29	34	40	51
18				27	16	4.8	4.7	29	29	37	45	49
19				26*	13	3.7	4.7	34	30	34	44	47
20				91	13	3.7	6.8	33*	30	34	44	44
21				50	13	0	23	33	22	41	44	42
22				50	13	2.6	23	32	23	40	44	40
23				50	13	2.5	23	18	23	40	52	37
24				50	13	2.5	22	29	26	40	51	37
25				19	25	2.6	20	29	26	37	51	29
26				21	0	2.5	25	29	26	33	29	25
27				16	0	2.5	10	29	23	37	30	23
28				27	58	5.0	11	29	30	37	30	20
29				29		4.4	18	29	29	37*	40	18
30				27		2.2	18	45	22	37	40	13
31				25		2.1		43		37	40	
Mean				30.6	18.6	5.4	8.1	27.5	26.6	34.3	37.5	40.5
Ac.-Ft.				1637	1033	332	484	1692	1585	2110	2309	2412

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement (or observation of no flow) made on this day.

TABLE 78

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1955			1956								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	12	26	174	123	98	13	29	35	31	35	23
2	18	12	15	165	124	89	13	24	37	31	35	23
3	23	13	15	157	110	86	0	17	38	32	31	23
4	23	13	15	151	98	86	0	69	27	32	32	25
5	20*	13	15	120	97	41	0	40	27	38	32	26
6	16	13	22	134	92	50	2.2	62	37	47	36	25
7	18	13	17	162	82	64	2.2	75	49	45	36	40
8	18	14	8.1	155	71	62	2.3	40	40	45	35	36
9	18	14	21	133	74	48	0	73	41	39	31	37
10	18	16	15	130	66	56	3.9	71	42	40	28	37
11	18	16	17	140*	64	54	2.7	72	35	40	28	37
12	16	18	18	128	80	48	0	73	37	48	28	44
13	16	17	19	135	80	48	17	74	28	38	22	41
14	16	18	20	218	54	33	16	68	30	40	0	39
15	18	11	15	250	48	40	17	59	41	41	0	37
16	18	13	12	241	48	48	8.8	55	42	48	0	34
17	18	13	17	224	42	35	9.1	75	43	42	0	33
18	18	11	17	211	45	32	8.9	70	43	39	0	33
19	27	13	122	214	31	28	9.3	68	44	44	0	33
20	17	16	171	214	54	30	9.3	72	47	38	0	32
21	13	18	133	200	58	30	9.5	66	40	39	0	29
22	12	20	134	229	143	28	9.5	66	38	39	32	25
23	12	18	197	211	163	52	9.5	64	39	39	28	21
24	12	20	193	195	137	52	5.3	90	39	40*	28*	20
25	12	23	175	255	148	25	5.7	96	51	39	28	18
26	12	20	212	246	122	24	5.9	66	47	39	28	16
27	10	23	224	248	124	24	25	67	0	39	28	15
28	10	25	216	242	114	20	21	57	26	39	18	12
29	10	25	194	213	110	20	22	19	36	39	18	12
30	10	25	188	180*		20	9.3	49	35	34	19	10
31	11		153	152		12		21		35	23	
Mean	16.0	16.5	84.4	188	89.7	44.6	8.6	59.6	37.1	39.3	21.3	27.9
Ac.-Ft.	984	984	5189	11558	5161	2743	511	3663	2210	2418	1307	1658

E - Estimated NR - No Record

Total Discharge in Acre-Feet 38380

* Discharge measurement (or observation of no flow) made on this day.

TABLE 79

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1956			1957								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	9.8	8.7	14	8.3	45	7.8	20	23	31		0
2	10	8.7	8.7	14	8.6	46	7.8	43	33	34		0
3	8.2	9.8	8.7	14	8.6	45	0	34	34	32		0
4	6.3	8.7	8.7	14	8.8	45	0	34	25	32		0
5	6.3	11	8.7	14	9.1	50*	5.7	34	42	32		0
6	8.2	11	8.7	14	9.1	51	5.4	24	28	31		0
7	8.2	8.7	8.7	14	9.4	50	5.2	30	31	31		0
8	8.2	9.8	8.7	13	9.6	54	0	34	31	31*		0
9	8.2	8.7	8.7	13	9.6	79	0	55	31	0		0
10	6.3	8.7	8.7	13	9.6	50	0	50	46	0		0
11	6.3	8.7*	8.7	13	9.6	45	0	48	28	0		0
12	6.3	8.7	9.8	14	9.6	46	5.6	49	31	0	N	0
13	6.3	9.8	8.7	14	9.6	20	5.4	34	32*	0	0	0
14	6.3	8.7	8.7	12	9.6	33	5.4	40	36	0		0
15	6.3	8.7	9.8	7.5	9.4	37	0	39	34	0		0
16	6.3	8.7	9.8	16	8.3	35	7.0	39	22	0	F	0
17	0	8.7	9.8	16	0	34	0	39	21	0	L	0
18	0	8.7	9.8	16	0	32	0	39	27	0	0	0
19	13	8.7	9.8	16	0	21	9.9	40	27	0	W	0
20	7.5	8.7	9.8	18	0	21	9.7	84	32	0		0
21	7.5	8.7	9.8	14	0	21	9.7	86	27	0		0
22	3.3	8.7	9.8	16	0	21	22	86	27	0		0
23	4.7	8.7	9.8	16	0	20	29	97	27	0		0
24	4.7	8.7	9.8	16	0	21	18	79	23	0		0
25	4.7*	8.7	9.8	16	45	21	17	62	34	0		0
26	3.3	8.7	9.8	16	26	21	14	81	26	0		13
27	4.7	8.7	9.8	16	33	21	15	81	32*	0		35
28	4.7	8.7	9.8	14	44	9.4	15	85	31	0		31
29	6.1	8.7	9.8	5.3		15	15	80	31	0		29
30	6.1	8.7	9.8	8.6		16	15	76	31	0		26*
31	7.5		9.8	8.3		19		68		0		
Mean	6.2	9.0	9.3	13.7	10.5	33.7	8.2	54.5	30.1	8.2	0	4.5
Ac.-Ft.	384	536	574	844	585	2072	485	3352	1791	504	0	266

E - Estimated NR - No Record

Total Discharge in Acre-Feet 11390

* Discharge measurement (or observation of no flow) made on this day.

TABLE 80

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1957			1958								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	22	20	26	87	233	169	27	65	0	41	42
2	26	22	21	34	86	252	209	17	63	38	40	44
3	26	22	20	40•	131	249	211	17	51	44	39	44
4	26	22	20	42	154	252	176	29	51	36	34	46
5	22	22	20	42	172	206	165	25	58	39	38	54
6	21	21	22•	41	146	169	211	21	101	39	37	52
7	19	23•	20	37	153	136	203	21	70	36	41	48
8	20	23	20	35	143	123	172•	31•	67	36	42•	44
9	19	24	20	34	159	101	155	39	23	36	42	45
10	21	24	20	38	145	94	139	44	35	42	42	46•
11	19	25	7.6•	38	158	86	122	56	35	39	42	43
12	17	27	41•	36	200	78	107	85	54	40	35	44
13	21	27	20	38•	198	75	101	44	52	40	37	42
14	24	27	19	38	184•	70	86	72	72	40	37	41
15	31	27	21	38	166	47	82	74	85	41	37	39
16	19	18	23	38	142	64	72	66	88	41	37	39
17	21	20	21	39	152•	49	71	31	31	41	38	38
18	19	23	16	40	190	54	63	47	34•	47	46	38
19	19	24	32	34	251	61	61	75	33	46	46	36
20	23	22	34	34	247	53	54	92	21	46	41	34
21	27	25	31	32	232	113	48	65	18	44	40•	33
22	26	25	34	32	236	105	48	88	21	44	49	33
23	24	21	32	30	241	137	48	100	26	34	51	32
24	24	22	31	32	219	147	37	87	25	39	50	27
25	25	24•	25	36	258	148	20	81	30	39	46	27
26	23	24•	30	123	250	130	23	81	39	39	42•	28
27	23	19	30	92•	239	121	29	79	27	38	45	27
28	23	20	28	90	244	107	40	71	25	33•	45	26
29	22	20	28	89		98	37	71	26	34	41•	24
30	22	20	28	90		102	33	71	34	35	43	25
31	37		28	88		99		71		40	42	
Mean	23.3	22.8	24.6	47.6	185	121	99.7	57.4	45.3	38.3	41.5	38.0
Ac.-Ft.	1434	1359	1513	2928	10280	7456	5936	3527	2698	2352	2551	2263

E – Estimated NR – No Record

Total Discharge in Acre-Feet 44300

• Discharge measurement (or observation of no flow) made on this day.

TABLE 81

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	15	19	20	20	60	8.6	33	36	33	37	33
2	23	17	19	19	20	63	8.6	32	36	31	35	42
3	22	19	22	21	21	49	8.6	32	31	30	35	43
4	19	12	20	19	21	49	8.6	30	32	30	32	43•
5	18	19	20	17	20	49	8.7	29	40	30	35	40
6	6.0	19	17	23	0	35	2.9	48	37	32	33	40
7	0	18	18	23	17	29	0	41	36	32	33	38
8	0	18	18	16	0	33	0	30	37	37	34	37
9	0	20	18	21	32	30	0	29	37	38•	34	39
10	0	22	26	28	26	30	0	30	34	35	34	50
11	0	19	22	29	25	25	0	30	31	36	34	52
12	0	19	21	30	22	21	0	30•	33	36	32	44
13	0	19	19	30	21•	0	0	37	33	37	32	41
14	0	17	18	31	21	24	5.6	38	33	38	39	38
15	0	18	17	36	21	23	2.1	37	33	42	43	37
16	0	18	18	36	22	4.8	4.2	38	37	39	41	28
17	0	19•	18•	33	35	5.6	5.8	38	38•	38	37	37
18	0	20	18	29	94	6.1	5.8	37	34	38	36	32
19	0	19	18	34	100	5.6	5.9	33	30	38	37	29
20	0	19	18	33	99	5.4	13	36	30	42	40	30
21	0	19	19	21	110	5.4	12	39	30	40	37	32
22	0	19	20	21•	95	5.6	10	39	36	41	40	28
23	39	19	20	21	90	5.7	10	38	41	41	40	30•
24	15	19	18	20	90	7.6	10	39	38	41	45	28
25	17	18	19	25	91	8.3	10	43	42	40	45	26
26	16	15	19	21	78	8.4	10	38	38	41	42	24
27	16	15	20	21	80	8.4	12	33	37	41	40	22
28	16	15•	20	21	63	8.4	18	32	36	41	38	19
29	16	18	20	21		8.4	16	37•	32	43	37	19
30	15	18	20	20		8.4	18	38	28	41	41	20
31	15		21	20		8.4		38		40	32	
Mean	8.9	18.0	19.4	24.5	47.6	20.3	7.1	35.5	34.9	37.5	37.1	34.0
Ac.-Ft	547	1073	1190	1507	2646	1251	425	2186	2075	2305	2281	2025

E – Estimated NR – No Record

Total Discharge in Acre-Feet 19510

• Discharge measurement (or observation of no flow) made on this day.

TABLE 82

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	0	29	26	95	31	17	19	48	34	37	42
2	26	0	40	25	90	30	17	22	50	36	37	41
3	28	0	40	25	94	28	16	31	49	35	42	41
4	24	0	41	24	92	25	0	38	48	34	40	41
5	20	0	58	22	92	21	16	25	47	34	40	34
6	19	0	42	24	78	0	19	20	39	43	40	31
7	18	0	42	24	66	22	6.7	21	43	38	46	31
8	18	34	42	24	66	13	0	22	35	35	38	31
9	19	20	36	25	85	24	0	31	37	35	34	31
10	19	15	34	24	90	24	0	43	36	44	32	31
11	18	16	33	22	75	19	0	37	37	43	33	43
12	17	18	36	23	63	22	0	47	39	42	34	55
13	17	19	33	21	67	20	0	43	32	39	33	48
14	17	19	30	21	67	19	0	43	34	42	33	50
15	18	13	29	21	65	25	0	37	26	43	33	48
16	17	17	30	20	61	24	0	31	33	43	33	49
17	17	17	28	22	51	45	0	28	35	44	33	47
18	17	18	28	23	54	35	0	38	35	43	33	44
19	17	17	28	21	48	31	0	37	30	43	33	42
20	17	17	24	21	49	33	7.7	34	34	39	33	41
21	17	17	21	21	49	27	2.9	34	30	42	37	38
22	17	16	28	21	49	21	7.5	36	32	42	34	32
23	17	15	35	21	35	22	9.9	30	29	41	33	26
24	6.3	15	33	21	28	23	11	33	29	35	32	24
25	0	15	31	21	31	20	19	47	29	40	33	21
26	0	24	29	24	35	19	24	41	43	37	33	21
27	0	22	27	24	35	20	29	40	39	41	33	20
28	0	19	25	23	32	20	22	40	36	39	44	20
29	0	6.8	27	19		20	20	35	29	37	43	18
30	0	0	26	15		17	21	48	29	37	30	18
31	0		26	37		17		47		37	42	
Mean	14.3	13.0	32.6	22.7	62.2	23.1	8.9	34.8	36.4	39.3	35.8	35.3
Ac-Ft	879	773	2005	1398	3455	1422	527	2138	2166	2414	2204	2100

E — Estimated NR — No Record

Total Discharge in Acre-Feet 21480

TABLE 83

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	34	187	50	219	96	176	364	543	393	423	551
2	147	21	165	45	312	104	186	647	623	375	451	496
3	171	34	0	40	272	88	0	574	423	390	445	511
4	150	34	142	8.2	182	0	0	593	680	381	446	434
5	137	30	83	0	288	129	0	600	451	383	435	527
6	121	22	71	43	184	65	0	428	455	396	457	803
7	159	38	72	46	190	48	0	692	423	404	524	636
8	135	27	72	42	203	0	0	553	37	414	507	636
9	55	22	242	37	229	65	0	546	441	413	519	592
10	0	18	116	21	229	56	0	546	351	409	532	605
11	0	28	42	27	0	55	0	405	370	411	535	593
12	0	0	0	28	433	65	57	363	351	407	535	587
13	0	0	19	48	206	63	101	264	397	396	529	574
14	64	0	0	47	214	101	66	863	402	410	529	546
15	56	0	0	56	221	138	47	214	426	417	525	532 *
16	39	18	0	51	200	132	0	347	415	415	532	486
17	51	19	25	37	193	115	181	540	414	407	545	486
18	63	0	110	31	0	106	39	561	413	409	529	433
19	57	0	32	45	341	102	86	558	403	411	554	409
20	37	25	48	41	153	117	54	521	408	406	578	319
21	40	0	49	49	197	94	92	557	405	408	814	282
22	55	0	49	48	130	110	98	530	398	411	578	263
23	43	21	57	52	120	103	142	530	397	408	575	204
24	44	0	24	42	125	103	156	514	411	397	545	185
25	47	14	49	35	95	94	113	502	426	406	555	166
26	35	0	41	49	127	94	131	546	412	416	552	151
27	21	72	41	159	95	94	146	542	381	411	577	122
28	43 *	34	64	164	103	94	160	496	396	417	843	161
29	25	48	0	157		71	197	122	390	413	649	109
30	16	35	0	134		71	319	517	400	410	592	36
31	26		42	238		72		553		411	557	
Mean	63.2	19.8	59.4	60.3	188	85.3	84.9	503	415	405	547	414
Max. Mean	171	72	242	238	433	138	319	863	680	417	843	803
Min. Mean	0	0	0	0	0	0	0	122	37	375	423	36
Ac-Ft.	3888	1178	3654	3709	10440	5246	5052	30920	24680	24900	33650	24650

E — Estimated NR — No Record

Total Discharge in Acre-Feet 172000

* Discharge measurement made on this day.

TABLE 84

DAILY MEAN DISCHARGE
SACRAMENTO SLOUGH AT SACRAMENTO RIVER

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	247 E	96 E	920	306	A	1500*	1730	487	1500	748 E	645	1090
2	176 E	194 E	A	216	A	1310	1490	425	1630	783 E	703	1080
3	176 E	172 E	A	215	2170	1200	999	625	1510	713 E	722	1040
4	202 E	96 E	2560	330	2930	1180	554	910	1590	766 E	711	994
5	323 E	173 E	5060	439	2760	963	387 E	938	1320	699 E	715	1020
6	316 E	198 E	5890	441	4100	543	574	827	1390	674 E	715	1100
7	241 E	145 E	5400	410	6130	455	831	738	1210	598 E	762*	1080
8	201 E	201 E	4000	336	7320	A	775	695	1090	559 E	799	1080
9	363 E	149 E	2600	282	7470	A	630	713	971	518 E	823	1120
10	246 E	103 E	2070	318	4240	795	639	690	933	473 E	892 E	1150
11	224 E	104 E	1540	300	A	787	583	634	931	632 E	947 E	1180
12	224 E	287 E	936	303	A	855	470	795	947	674 E	823 E	1180
13	239 E	428 E	806	268	987	895	330	855	959	674 E	797 E	1140*
14	214 E	549 E	561	263	1490	938	325	1260	959	713	818 E	1180
15	165 E	319	429	188	2230	831	395	663	973	713	789 E	1200
16	203 E	396	392	224	1920	A	361	888	954	686	804	1170
17	199 E	343	315	250	2480	546	375	1060	861 E	614	820	1110
18	127 E	337	A	249	3080	1110	425	1180	804 E	625	901	1030*
19	83 E	325	A	121 E	4120	1980	337	1050	740 E	625	938	956
20	152 E	318	695*	180	4460	2990	371	1100	756 E	669	980	897
21	85 E	225	744	119	4930	2640	283	1220	728 E	690	1100	810
22	85 E	406	740	172	4860	2370	324	1130	701 E	652	1170	595
23	86 E	234	605	114	4160	2160	271	1160	663*E	604	1060	604
24	155 E	124	616	118 E	3300	1340	320	1130	593 E	607	1030	571
25	87 E	121	590	121 E	2720	1110	285	1150	509 E	538	1020	526
26	89 E	A	454	124 E	2150	1330	392	1240	620 E	493	973	541
27	164 E	A	363	128	1890	1770	427	1250	715	547	929	574
28	166*E	1010	308	266	1690	1840	460	1250	673	564	982	526
29	189 E	1300*	208	330		2310	445	1130	632 E	564	1050*	458
30	231 E	1020	196	337		2690	432	1170	645 E	538	1110	489
31	94 E		190	568		2270		1270		588	1080	
Mean	186			259			541	956	950	630	891	916
Max. Mean	363 E			568			1730	1270	1630	783	1170	1200
Min. Mean	83 E			114			271	425	509	473	645	458
Ac.-Ft.	11410			15940			32170	58780	56540	38760	54760	54530

E - Estimated NR - No Record
A An undatermined amount of negative flow.
* Discharge measurement made on this day.

Total Discharge in Acre-Feet

TABLE 85

DAILY MEAN DISCHARGE
FREMONT WEIR SPILL TO YOLO BYPASS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Max Mean	0	0	0	0	0	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	0	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 0

TABLE 86

DAILY MEAN DISCHARGE
LITTLE LAST CHANCE CREEK NEAR CHILCOOT

In second-feet

Date	1960			1961									
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.1	6.5		9.0*E	6.2	11	6.9	7.9	0.5	0.1	0.4
2	0.7	1.2*	8.0*		8.0 E	6.8	14	6.8*	11	0.6	0.1	0.4
3	0.7	1.9	5.7	1.5 E	12 E	6.5	15	7.5*	7.7	1.0	0.1	0.3
4	0.7	1.8	4.4 E		8.0 E	6.6	17*	7.7	5.3	1.3	0.0	0.3
5	0.7	1.8	3.0 E		6.0 E	7.5	15	6.9	3.9	1.0	0.1	0.4
6	0.9	2.1	2.5 E		5.2*E	6.7	13	7.0	3.8	0.7	0.1	0.4*
7	0.7	2.5	2.2 E		5.6	6.2*	13	6.7	3.3*	0.7	0.2*	0.4
8	0.6	2.1	2.0 E		5.9	6.9	11	6.1	3.2	0.5	0.2	0.4
9	0.6	1.7			6.8	9.1	12	5.6	2.9	0.5	0.3	0.4
10	0.8	1.7			9.8*	8.6	11	6.0	2.6	0.4*	0.2	0.4
11	0.9*	2.2			9.7	9.0	10	6.3	2.6	0.4	0.2	0.5
12	0.9	3.6	1.8 E	2.1 E	10	9.3	10	6.8	2.3	0.4	0.3	0.4
13	1.0	4.0			7.5	9.6	12	6.9	2.1	0.5	0.4	0.5
14	0.8	3.5			8.7	8.8	8.4	5.6	1.4	0.4	0.4	0.6
15	0.8	2.8	2.0 E		10	9.1	7.7	5.1	0.7	0.5	0.2	0.9
16	0.8	2.6	3.5	*	8.4	7.7	7.9	4.9	1.2	0.4	0.2	0.5
17	0.9	2.6	4.5		7.4	8.7	8.1	4.7	1.4	0.4	0.2	1.1
18	1.0	4.2	4.5		7.4 E	9.0	8.3	4.5	1.1	0.4	0.2	1.1
19	1.0	4.0	3.7		7.5 E	11	5.8	4.8	0.8	0.3	0.2	0.9
20	0.9	2.8	*		7.5	9.7	5.6	6.0	0.8	0.2	0.3 E	0.8
21	0.9	3.2	2.5 E		7.8	9.4	6.1	5.0	0.8	0.2	0.3 E	1.1
22	1.0 E	2.7 E			7.6	9.3	7.5	4.4	0.6	0.2	0.3 E	1.2
23	1.0 E	2.5 E		2.7 E	5.3	11	9.3	4.1	0.6	0.2	0.2	0.9
24	1.0 E	3.7			6.0	11	9.7	4.2	0.4	0.1	0.3	1.1
25	1.0 E	3.9			6.9	13	12	3.6	0.7	0.0	0.3	1.0
26	1.0 E	3.9			6.7	13	12	3.5	0.6	0.0	0.3	0.6
27	1.1 E	3.8	2.0 E		6.5	12	9.2	3.5	0.4	0.0	0.4	0.6*
28	1.1 E	3.0			6.4	11	8.8	3.1	0.4	0.1	0.5	1.1
29	1.1 E	3.3		4.0 E		11	7.3	3.1	0.4	0.1	0.5	1.0
30	1.1 E	3.1		5.0 E		10	7.0	3.1	0.4	0.1	0.5	0.9
31	1.1 E			15 E		11		4.1		0.1	0.4	
Mean	0.9	2.8	2.9	2.7	7.6	9.2	10.2	5.3	2.4	0.4	0.3	0.7
Max. Mean	1.1	4.2	8.0	15 E	12 E	13	17	7.7	11	1.3	0.5	1.3
Min. Mean	0.6	1.1	1.8 E	1.5 E	5.2	6.2	5.6	3.1	0.4	0	0	0.3
Ac.-Ft.	54	165	176	169	424	565	604	326	141	24	16	41

Total Discharge in Acre-Feet 2705

E - Estimated NR - No Record

* Discharge measurement made on this day.

TABLE 87

DAILY MEAN DISCHARGE
SMITHNECK CREEK NEAR LOYALTON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	4.6 E	7.9	4.7 E	6.1*	5.8	7.3	5.7	7.5	3.1	3.0	3.6
2	2.9	5.2*E	6.4*	4.7 E	6.6	6.5	7.5	5.6*	8.9	3.1	2.8	3.7
3	3.1	6.3	5.1	4.7 E	6.2	6.0	8.3	5.2	6.7	3.8	2.8	3.6
4	3.3	5.9		4.7*E	5.5	6.0	8.5*	5.1	6.1	3.4	3.0	3.6
5	3.2	5.9		4.7 E	5.5	6.1	8.2	5.0	5.5	3.2	3.1	3.6
6	3.6	5.9		4.8 E	5.8	5.7	7.8	5.2	4.9	3.2	3.5	3.7
7	3.5	5.1	4.5 E	5.0 E	5.6	5.9*	7.5	4.9	4.6*	3.1	6.5*	3.6
8	3.5	4.8		5.4	5.8	6.2	7.0	4.6	4.4	3.1	4.2	4.2
9	3.7	4.9		5.5	6.9	6.4	7.0	4.6	4.3	2.9	3.2	4.0 E
10	4.8	4.8		5.0	8.3	6.3	6.6	5.1	4.3	2.9*	3.0	3.6 E
11	5.0*	5.1	4.5	5.1	9.1	6.4	6.3	5.7	4.4	3.2	3.3	3.6
12	4.5	5.7	4.5	5.2	6.8 E	6.5	7.0	6.1	4.2	3.4	6.0	3.6
13	4.5	5.6	4.4	5.0	6.9	7.1	7.1	5.7	3.8	3.5	5.3	3.6
14	4.2	5.0	4.3	5.6	6.9	7.3	6.5	5.0	3.6	3.2	4.7	3.6
15	4.1	4.9	4.4	5.4	6.8	7.2	6.0	4.8	3.5	3.1	4.2	3.7
16	4.3	4.9	4.4	5.3	6.5	6.4	6.2	4.7	3.5	3.1	4.1	4.6
17	4.3	5.0	5.1	5.2	5.8	6.8	6.5	4.5	3.4	3.1	4.0	4.5
18	4.3	5.4	5.0		6.0	6.5	6.1	4.5	3.3	3.1	3.7	4.2
19	4.1	5.0	4.7		5.7	7.0	5.7	4.5	3.3	2.8	4.2	4.0
20	4.2	5.1	4.8*		6.0	7.2	5.5	4.4	3.2	2.9	4.3	4.0
21	4.1	4.8	5.1	5.0 E	6.9	7.1	5.5	4.4	3.2	2.9	4.1	4.0
22	4.3	4.8	5.0		6.6	7.4	6.2	4.3	3.0	2.8	3.6	4.0
23	4.3	4.8	4.8		5.9 E	8.0	6.4	4.3	3.3	2.9	3.8	3.8
24	4.5	5.0			6.2	7.8	6.4	4.3	3.0	2.9	3.8	3.8
25	4.5	5.1	4.5 E	5.7	6.1	7.7	6.7	4.2	3.1	2.7	3.5	3.8
26	4.4	4.9		6.0	5.2	7.5	7.4	4.2	3.1	2.7	3.5	3.8*
27	4.5	4.6 E	4.2	5.9	5.7	7.5	7.1	4.1	3.2	2.7	4.0	3.8
28	4.6	4.7 E	4.1 E	4.8	5.5	7.3	6.2	4.1	3.1	2.7	4.4	3.8
29	4.5 E	5.2	4.4 E	5.4		6.9	5.8	4.1	3.1	2.7	4.2	3.9
30	4.4 E	5.1	4.4 E	5.4		6.9	5.6	4.4	3.1	2.7	4.2	3.9
31	4.5 E		4.7	6.5		7.2		6.3		2.7	4.0	
Mean	4.1	5.1	4.7	5.2	6.3	6.8	6.7	4.8	4.2	3.0	3.9	3.8
Max. Mean	5.0	6.3	7.9	6.5	9.1	8.0	8.5	6.3	8.9	3.8	6.5	4.6
Min. Mean	2.9	4.6 E	4.1 E	4.7 E	5.2	5.7	5.5	4.1	3.0	2.7	2.8	3.6
Ac.-Ft.	251	306	292	319	351	418	400	297	247	186	242	228

Total Discharge in Acre-Feet 3537

E - Estimated NR - No Record

* Discharge measurement made on this day.

TABLE 88

DAILY MEAN DISCHARGE
MILLER CREEK NEAR SATTLEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	2.4	5.4*		3.9	2.6	4.9	5.2	10	2.3	1.9	1.6
2	2.3	2.3*	4.7	3.1 E	3.8	3.0	5.9	5.2*	8.9	2.4	1.8	1.7
3	2.3	2.4	3.5		4.5	2.7	8.2	6.4	7.3	2.5	1.7	1.7
4	2.4	2.5	3.4	3.0*	3.4	2.5	7.7*	6.0	7.1	2.3	1.6	1.7
5	2.4	2.5		2.9	3.2	2.2	6.5	5.4	7.0	2.2	1.5	1.7
6	3.6	3.8	3.4 E	2.9	3.1	2.5	6.2	5.1	6.6	2.3	1.7	1.6
7	2.6	3.7		3.1	3.0	2.4*E	6.2	4.7	6.4*	2.2	1.9*	1.7
8	2.5	3.2	3.5	3.0	2.8	2.3	6.2	6.2	5.5	2.1	1.9	1.6
9	2.3	3.5	3.3	3.2	7.5	2.3	7.0	7.2	5.3	2.0	1.8	1.6
10	2.5	3.5	3.2	3.1	8.5	2.4	6.5	10	5.1	2.0*	1.7	1.6
11	2.7*	4.6	3.0	2.6	6.1	2.4	7.1	6.4	5.1	2.0	1.8	1.5
12	2.7	4.8	3.2	2.5	5.0	2.3	7.4	5.8	5.2	2.0	1.9	1.6
13	2.5	3.4	3.4	2.7	4.2	2.7	6.4	6.4	4.6	2.1	2.1	1.5
14	2.4	3.9	3.3	2.7	3.8	3.1	6.8	7.3	4.2	2.0	1.8	1.5
15	2.5	3.9	3.3	2.8	3.6	3.2	7.3	7.4	4.1	1.9	1.7	1.6
16	2.5	3.8	3.3	2.8	3.4	2.5	8.1	8.1	3.9	2.0	1.7	1.7
17	2.4	3.9	4.5	2.6	3.3	2.4 E	8.2	8.8	3.7	2.0 E	1.6	2.2
18	2.4	5.9	4.4	3.0	3.1	2.8	7.6	9.3	3.4	2.1 E	1.5	1.7
19	2.2	3.9	3.8	2.7	3.0 E	2.8	5.8	9.7	3.2	2.2 E	1.7	1.8
20	2.4	3.3	3.6*	2.8	3.0	3.2	4.9	10	3.0	2.0 E	1.8	1.6
21	2.4	3.3	3.4	2.7	3.1	3.2	3.6	9.2	2.8	2.0 E	1.7	1.6
22	2.4	3.4	3.3	2.6	3.2	3.8	2.8	9.1	2.9	2.0 E	1.8	1.6
23	2.3	3.4	3.2	2.9	3.2	5.0	3.2	8.8	3.0	2.0 E	1.8	1.6
24	2.3	3.5	3.1	2.7	3.2	4.0	3.0	8.7	2.9	2.0 E	1.9	1.6
25	2.4	3.5	3.2	2.6	2.4	3.7	2.6	8.8	2.6	1.8 E	1.9	1.7
26	2.4	3.6	3.2	2.9	2.6	3.4	3.2	8.0	2.6	1.7	1.8	1.8*
27	2.5	3.3	3.4	2.5	2.8	2.9	3.4	7.3	2.6	1.7	1.8	1.5
28	2.6	3.3		2.7	2.5	3.2	4.1	6.9	2.4	1.7	1.9	1.6
29	2.5	3.3	3.3 E	2.5		3.1	5.2	6.2	2.3	1.6	2.0	1.6
30	2.6	3.3		2.5		3.6	5.2	6.0	2.3	1.6	2.0	1.5
31	2.6		3.2	4.6		4.3		7.4		1.8	1.9	
Mean	2.5	3.5	3.5	2.9	3.8	3.0	5.7	7.3	4.5	2.0	1.8	1.6
Max. Mean	3.6	5.9	5.4	4.6	8.5	5.0	8.2	10	10	2.5	2.1	2.2
Min. Mean	2.2	2.3	3.0	2.5	2.4	2.2	2.6	4.7	2.3	1.6	1.5	1.5
Ac.-Ft.	153	208	216	176	209	183	340	450	270	124	110	98

E - Estimated NR - No Record

Total Discharge in Acre-Feet 2537

* Discharge measurement made on this day.

TABLE 89

DAILY MEAN DISCHARGE
MIDDLE FORK FEATHER RIVER NEAR PORTOLA

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	41	18	85*	48	45	61	25	7.8	0	0.1
2	0	0.1	57*	17	90	62	50	60*	44	8.4	0	0.1
3	0	0.1	67	16	117	53	63	50	34	6	0	0
4	0	0.4	66 E	16*	106	46	65*	52	30	4.3	0	0
5	0	0.4	53 E	17	106	42	49	45	34	2.8	0	0
6	0.1	0.4	43 E	19	82	40	40	39	46	2	0	0
7	0.1	0.4	33 E	20	65	43*	33	43	52*	1.5	0.1	0
8	0.1	0.3	25 E	19	61	47	26	35	49	1	0.1	0
9	0.1	0.3	21 E	26	63	55	27	30	40	0.7	0.2	0
10	0.1	0.4	19	28	105*E	60	25	27	33	0.6*	0.1	0
11	0.1	4.2	23	32	105	61	22	34	26	0.5	0.1	0
12	0.1	17	29	36	121	69	22	47	22	0.5	0.1	0
13	0.1	23	29	35	143 E	65	31	44	16	0.5	0.1	0
14	0.1	23	31	40	149 E	66	24	35	13	0.3	0.1	0
15	0.1	24	30	41	133 E	67	19	34	10	0.2	0.1	0
16	0.1	26	34	38*	115	51	19	40	8.2	0.3	0	0
17	0.1	27	50	32	97	41	29	46	6.7	0.2	0	0.1
18	0.1	30	53	28 E	90	44	31	44	6.1	0.1	0	0.1
19	0.1	32	57	25	79	60	28	39	5.4	0.2	0	0.1
20	0.1	33	56*	24	72	80	25	36	5	0.2	0.1	0.1
21	0.1	39	48	22	65	62	25	32	4.2	0.2	0.1	0.1
22	0.1	39	40	27	67	43	31	25	3.8	0.1	0.1	0
23	0.1	33	36	33	58	59	37	21	3.5	0.1	0	0
24	0.1	30	33	35	49	44	49	18	3.5	0.1	0	0
25	0.1	29	30	38	52	36	67	17	3.1	0.1	0	0
26	0.1	32	29	42	51	46	88	15	2.8	0.1	0	0
27	0.1	31	30	47	47	43	111	12	2.4	0.1	0	0
28	0.1	28	21	53	48	30	116	12	1.8	0	0.1	0
29	0.1	27	21 E	54		31	89	11	1.7	0.1	0.2	0
30	0.1	28	21	52		37	72	9.6	1.7	0	0.2	0
31	0.1		18	103 E		39		10		0	0.2	
Mean	0.1	18.6	36.9	33.3	86.5	50.6	45.3	33	17.8	1.3	0.1	0
Max. Mean	0.1	39	67	103	149	80	116	61	52	8.4	0.2	0.1
Min. Mean	0	0.1	18	16	47	30	19	9.6	1.7	0	0	0
Ac.-Ft.	5	1107	2269	2049	4802	3114	2694	2030	1059	77	4	1

E - Estimated NR - No Record

Total Discharge in Acre-Feet 19210

* Discharge measurement made on this day.

TABLE 90

DAILY MEAN DISCHARGE
INDIAN CREEK NEAR BOULDER CREEK GUARD STATION

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										3.2	0.5	0.7
2										3.0	0.5	0.6
3										2.7	0.5	0.6
4										2.6	0.4	0.6
5										2.4	0.4	0.6
6										2.4	0.5	0.6
7										2.2	1.2	0.5
8										2.2	1.3*	0.6
9										1.8	0.7	0.6
10										1.7	0.5	0.6
11										1.5*	0.5	0.6
12									19 E	1.5	0.5	0.6
13									15* E	1.4	0.6	0.6
14									12	1.4	0.5	0.6
15									11	1.3	0.5	0.6
16									9.8	1.3	0.5	0.7
17									8.5	1.2	0.5	0.9
18									7.7	1.2	0.5	0.8
19									6.9	1.0	0.6	0.7
20									6.1	1.0	0.8	0.6
21									5.4	1.0	0.6	0.8
22									5.4	1.0	0.5	0.6
23									4.8	0.8	0.5*	0.6
24									4.4	0.8	0.5	0.6
25									4.2	0.9	0.5	0.7
26									3.9	0.7*	0.5	0.7
27									3.8	0.7	0.6	0.8
28									3.6	0.7	1.3	0.8*
29									3.5*	0.7	1.1	0.8
30									3.5	0.6	0.8	0.8
31										0.6	0.7	
Mean										1.5	0.6	0.7
Max. Mean										3.2	1.3	0.9
Min. Mean										0.6	0.4	0.5
Ac-Ft.										90	39	39

E - Estimated NR - No Record

Total Discharge in Acre-Feet

Recorder installed June 11, 1961.
* Discharge measurement made on this day.

TABLE 91

DAILY MEAN DISCHARGE
RED CLOVER CREEK NEAR GENESEE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	8.8*	37 *	13 E	40	25	48	31	28	8.4	5.9	7.5
2	7.6	9.3	39	13 E	31 *	26	49	30	40	8.4	5.8	6.9
3	7.1	12	27	13 *	40	28	53	30*	31	8.1	6.0	6.8
4	7.5	12	20		29	28	54	28*	26	8.1	6.1	7.0
5	7.7	11			25	28	49*	26	23	7.8	6.7	6.9
6	8.4	12		14 E	22	28*	45	26	20	8.2	6.7	7.1
7	8.5	12	15 E		22	27	41	25	18	7.8	7.9	7.2
8	8.7	10			20	29	35	23	21	7.9	8.1*	7.2
9	8.6	10			35	37	34	22	18	7.4	7.7	7.5
10	8.8	11		14	48	41	31	25	15	7.5	6.7	7.4
11	9.2	12	14	14	52	44	28	29	15	7.5*	6.3	7.3
12	9.0*	17	14	13	47	44	29	31	15	7.4	6.8	7.2
13	9.1	18	13	13	39	41	35	30	15*	7.7	7.6	7.3
14	8.8	15	14	13	36	43	31	26	14	7.7	8.0	7.2
15	8.7	12	14	13	42	49	28	25	13	7.2	7.2	7.1
16	8.5	11	14	12	38	45	25	23	14	6.8	7.1	7.5
17	8.5	12	18	12 E	35	42	24	21	12	6.9	6.8	8.3
18	8.3	22	19	12 E	28	44	22	21	11	7.0	6.7	8.0
19	8.3	17	18 *	11 E	26	53	21	21	11	6.9	7.2	7.8
20	8.4	13	16	11 E	27	55	19	23	11	6.3	8.3	7.7
21	10	13	15	11 E	29	47	20	22	10	6.7	7.2	7.8
22	9.7	16	15	11 E	31	45	24	21	9.5	6.7	6.8	8.3*
23	8.7	12	14	12	28	58	25	19	9.4	6.5	6.8	8.0
24	8.5	14	14	12	25	55	24	18	9.5	6.4	6.6	8.5
25	9.5	15	13	12	27	54	29	17	9.0	6.5	6.9	8.9
26	9.1	16	13	14	29	62	52	17	8.7	7.6	6.7	9.4
27	9.5	13	13	15	26	68	49	17	8.1	6.6	7.0	9.7
28	9.7	13		14	25	57	40	16	8.4	6.3	7.0	10 *
29	9.3	12	13 E	14		52	35	16	8.1	6.1	7.6	11
30	9.3	12		14		49	33	16	8.4	6.0	8.2	10
31	9.0			36		48		17		6.2	8.2	
Mean	8.7	13.1	16.6	13.7	32.2	43.6	34.4	23	15.3	7.2	7.1	8.0
Max. Mean	10	22	39	36	52	68	54	31	40	8.4	8.3	11
Min. Mean	7.1	8.8	13 E	11 E	20	25	19	16	8.1	6.0	5.8	6.8
Ac-Ft.	535	780	1023	845	1789	2682	2047	1412	913	442	434	473

E - Estimated NR - No Record

Total Discharge in Acre-Feet 13380

* Discharge measurement made on this day.

TABLE 92

DAILY MEAN DISCHAROE
INDIAN CREEK NEAR TAYLORSVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	28	88	43 E	198	113	263	241	260	30	14	18
2	17	26	197	39 E	148	119	300	225	328	30	13	18
3	17	34	126	44*E	171	131	386	235	276	31 E	13	17
4	16	37	97	46 E	149	131	438	242	221	30 E	13	17
5	16	39	71	45 E	118	126	378	220	195	29 E	15	17
6	20	43	62	48	110	124	327	222	174	29 E	17	17
7	22	45	55	49	105	121	300	212	158	29 E	22	18
8	21	47	56	49	98	125	271	202	147	29 E	26*	18
9	19	43	50	50	138	150	267	220	135	29 E	23	17
10	21	41	51	51	255	160	254	283	128	29 E	20	17
11	22	48	54	49	300	163	229	275	122	27*E	19	17
12	24*	67 E	51	48	286	175	251	260	115	25	20	18
13	23	74	52	48	220	174	246	259	103	26	23	18
14	24	66	53	49	187	197	228	251	98	27	21	18
15	24	53	53	48	201	248	207	254*	88	24	20	19
16	23	45	55	49	198	227	218	256	79	22	17	21
17	23	47	75	46	175	213	261	258	72	23	18	21
18	23	86	83	43	149	206	282	264	66	23	16	20
19	26	84	87*	43	138	228	229	285	64	21	17	20
20	24	62	77	43	136	246	200	284	60	21	20	19
21	25	53	72	43	139	235	192	267	58	21	19	19
22	27	49	69	42	147	228	202	251	54	19	18	20*
23	25	44	64	45	135	338	199	233	52	18	17	20
24	23	49	62	44	126	356	185	214	50	18	17	19
25	22	72	60	47	129	326	183	202	48	16	18	19
26	27	86	61	47	130	318	243	196	43	16	17	18
27	27	68	54	54	120	326	249	179	40	16	17	18
28	27	56	53	48	118	292	233	168	40	16	19	19
29	25	54	47	50		263	225	159	36	15	19	19
30	25	49	50	50		255	223	161	32	16	19	22
31	24		46 E	124		255		174		15	18	
Mean	22.6	53.2	68.7	49.2	162	212	256	231	111	23.2	18.2	18.6
Max. Mean	27	86	197	124	300	356	438	285	328	31	26	22
Min. Mean	16	26	46	39	98	113	183	159	32	15	13	17
Ac.-Ft.	1388	3164	4227	3023	8973	13030	15210	14190	6629	1428	1121	1107

E - Estimated NR - No Record

Total Discharge in Acre-Feet 73490

* Discharge measurement made on this day.

TABLE 93

DAILY MEAN DISCHARGE
LIGHTS CREEK NEAR TAYLORSVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	2.5*	36*	8.2	60	26	94	59	82	7.1	2.2	2.0
2	1.4	2.8	38	7.4	56*	30	117	53	67	6.7	2.2	1.9
3	1.3	4.0	21	8.4*	58	30	144	52	47	6.7	2.0	1.8
4	1.5	4.3	16	7.7	40	28	137	56*	42	6.6	1.9	1.7
5	1.4	4.1	11	7.8 E	32	27	111*	53*	38	6.4	1.9	1.7
6	2.2	4.6	9.6	8.5	29	27*	94	58	35	6.0	2.4	1.7
7	2.3	5.3	9.3	8.4	27	25	84	52	32	5.7	3.0	1.7
8	2.2	4.4	9.2	8.4	26	26	76	50	29	5.9	3.8*	1.7
9	2.1	4.4	8.6	10	70	30	74	51	27	5.5	3.3	1.7
10	2.3	4.1	8.9	11	97	29	68	70	26	5.0	2.6	1.7
11	2.6	6.7	9.3	9.5	113	30	66	69	25	4.8*	2.3	1.7
12	2.9*	10	8.4	9.2	81	31	77	69	23	5.1	2.4	1.6
13	3.0	8.9	8.1	8.9	59	34	64	70	21*	5.8	2.6	1.5
14	2.8	7.7	8.0	8.9	51	47	58	64	18	4.9	2.3	1.5
15	2.5	6.4	7.8	8.2	57	67	54	62	17	4.4	2.0	1.5
16	2.5	5.9	8.9	8.0	51	55	58	59	16	4.0	1.9	1.7
17	2.6	6.3	22	8.0	44	53	65	58	15	3.7	1.9	2.6
18	2.2	21	28	7.8	39	46	64	57	14	3.6	1.8	2.6
19	2.2	12	21*	7.9	36	49	56	57	14	3.7	2.0	2.3
20	2.0	8.7	18	7.7	34	60	49	56	12	3.5	2.7	2.1
21	1.9	7.5	15	7.8	35	59	50	54	12	3.4	2.2	2.0
22	1.9	6.6	14	7.0	34	65	49	51	11	3.1	1.8	2.0*
23	2.1	6.6	14	7.5	31	145	47	48	10	3.1	1.6	2.1
24	2.3	19	13	7.6	31	116	43	44	9.7	3.0	1.5	1.9
25	2.2	17	12	7.7	32	97	46	41	9.2	2.8	2.3	1.9
26	2.2	14	12	8.4	28	83	55	39	8.7	2.7	2.2	1.7
27	2.4	14	12	9.9	27	78	57	37	8.2	2.5	2.1	1.7
28	2.3	10	10	9.0	26	70	58	34	8.3	2.4	3.1	1.7
29	2.1	9.7	9.0	9.5		70	59	32	7.7	2.4	3.8	1.7*
30	1.9	9.0	9.8	11		76	57	42	7.7	2.3	2.8	1.7
31	1.9		9.5	88		85		42		2.3	2.3	
Mean	2.1	8.3	14.1	11.1	46.6	54.6	71.0	52.9	23.1	4.4	2.4	1.8
Max Mean	3.0	21	38	88	113	145	144	70	82	7.1	3.8	2.6
Min. Mean	1.3	2.5	7.8	7.0	26	25	43	42	7.7	2.3	1.5	1.5
Ac.-Ft	132	491	868	681	2586	3360	4227	3251	1374	268	145	109

E - Estimated NR - No Record

Total Discharge in Acre-Feet 17490

* Discharge measurement made on this day.

TABLE 94

DAILY MEAN DISCHARGE
SPANISH CREEK NEAR QUINCY

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	13 *	388	39	407	63	199	166	148	20	11	12
2	12	13	247 *		339 *	66	234	154	118	17	11	12
3	13	18	123		*	66	291	137*	101	19	11	13
4	11	18	80	36 E	274	62	286	136	91	19	11	13
5	11	18	65		187	140	69	241*	132*	83	18	10
6	13	18	52		140	122	74*	208	138	77	19	11
7	11	20 E	56	34		111	67	186	132	75 *	18	11 *
8	13	16 E	43	32		100	71	167	125	70	19	11
9	13	15	39	40		370	98	159	130	60	18	11
10	13	14	38	42		381	86	152	185	58	18*	9.0
11	13*	26	39	39		449	99	144	198	57	17	9.0
12	13	62	35	38		305	97	168	180	53	18	9.7
13	13	74	34	36		218	93	148	168	52	16	10
14	13	60	33	34		184	114	137	150	47	15	10
15	15	39	32	34		216	359	125	146	40	16	9.0
16	15	33	52	34		197	227	131	144	37	16	8.3
17	14	33	187	34		170	205	139	139	36	16	8.3
18	13	132	153	32		143	175	148	138	34	16	8.7
19	13	57	116 *	31		126	181	129	145	32	16	8.7
20	13	41	94	32		111	248	117	137	30	15	9.0
21	14	38	78	30		107	215	120	128	30	15	9.0
22	14	34	67	30		96	216	133	118	29	14	8.5*
23	14	33	63	30		90	382	129	109	26	13	8.3
24	13	71	58	31		84	333	122	100	27	13	8.0
25	14	94	53	30		81	280	128	100	26	12	9.0
26	16	111	50	40		75	251	143	99	26	12	9.3
27	15	69	46	54		72	242	144	89	23	13	10
28	14	53	43	50		63	214	158	82	21	13	39
29	14	49	42	62			190	165	79	21	13	16
30	13	54	39	115			186	162	103	20	12	12
31	13		40	1010			188		106		12	12
Mean	13.3	44.2	80.2	70.7	186	168	164	132	51.6	15.7	10.9	11.4
Max. Mean	16	132	388	1010	449	382	291	198	148	20	39	15
Min. Mean	11	13	32	30	63	62	117	79	20	12	8.0	9.0
Ac-Ft.	815	2630	4929	4350	10350	10350	9745	8118	3070	968	672	676

E - Estimated NR - No Record

Total Discharge in Acre-Feet 56670

* Discharge measurement made on this day.

TABLE 95

DAILY MEAN DISCHARGE
FEATHER RIVER NEAR GRIDLEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	782	917	3000 E	1510	12500	2220	5430	2140	1870	593	722	525
2	792	959	6000 E	1460	8200	2000	5710	2540	2070	565	731	309
3	789	966	6000 E	1480*	8330	1840	6300	2100	1950	573	714*	253
4	567	959	4000 E	1650	6600	2170	7260	1870	1660	586	679	253
5	459	789	3400 E	1680	4980	1910	7450	1670	1330	619	698	257
6	474	789	3000 E	1680	4190	2370	6730	1760	1280	678	715	269
7	520	801	2800 E	1640	3960	2210	6400	1920	906	691	744	290
8	526	970	2700 E	1610	3560	2080	5840	1510	998	693	744	333
9	502	1160	2700 E	1620	6640	2430	5190	1510	939	679	758	220
10	495	1160	2700	1800	12200*	2470	4990	2530	709	640	732	205
11	451	1200	2690	1760	10300	2360	4330	2940	497	605	747	232
12	443	1550	2680	1680	9870	2220	4250	2810	498	606	757	348
13	558	2130	2670	1650	7410	2150	4590	2590	808	568	776	228
14	515	2790	2660	1640	6450	2230	3540	2490	767	516	813	208
15	431	2820	2660	1600	6100	5340	3390	2140	652	503	818	240
16	423	2620	2800	1610	6340	6090*	3100	2440 E	533	542	819	321
17	409	2540	4400	1630	5850	6100	3510*	2420 E	495	579	809	354
18	400	2930	5520	1650	4620	5240	3810	2640 E	262	613	788	380
19	403	3540	4360	1750	3970	4310	3200	3110 E	222	663 E	806	399
20	401	2920	3830	1590	3660	5310	2340	2930	350	747 E	861	428
21	404	2680	3540	1500	3580	5310	2150	2700 E	238	753 E	828	453
22	400	2250 *	3480	1350	3110	4950	2930	2470 E	214	722 E	844	429
23	404	2150 E	3340	1380	3040	6840	2570	2140	228	747 E	839	401
24	419	2100 E	3330	1420	2790	7920	2050	1940	203	741 E	845	371
25	637	2500 E	3250	1480*	2520	8310	1930	1950	205	695	845	366
26	724*	4500 E	3160	1640	2350	7160	1840	1840	254 E	692	895	291
27	823	4600 E	3000	1610	2420	6930	1770	1480	463 E	689	937 E	248
28	821	3500 E	2370	1580	2270	6750	1700	1240	531*E	679	873 E	202
29	827	3000 E	2020	1510		6030	1780	1220	550 E	669	703 E	219
30	901	2800 E	1920	2570		5740	2070	1200	591 E	731	666 E	223
31	901		1610	9510		5510		1590		738	675*	
Mean	568	2153	3277	1879	5636	4339	3938	2124	742	649	780	309
Max. Mean	901	4600 E	6000 E	9510	12500	8310	7450	3110	2070	753	937	525
Min. Mean	400	789	1610	1350	2270	1840	1700	1200	203	503	666	202
Ac-Ft.	34910	128100	201500	115500	313000	266800	234300	130600	44180	39900	47960	18360

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1575000

* Discharge measurement made on this day.

TABLE 96

DAILY MEAN DISCHARGE
NORTH HONCUT CREEK NEAR BANGOR

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0 E	15 E	7.5	196	10	42	4.8	5.5			
2	0	0 E	60 E	6.9	322	11	38	6.8	7.6			
3	0	0 E	40 E	6.9	173	9.8	34	7.6	6.5		*	
4	0	0 E	25 E	6.5	82	8.2	29	6.3	6.4			
5	0	0 E	18 E	6.9	56	8.2	22	5.6	5.7			
6	0	0 E	13 E	6.5	46	9.5	19	5.7	4.9			
7	0	0 E	10 E	6.3	38	7.9	17	8.4	5.0*			*
8	0	0 E	7.6	6.3	33	7.9	14	7.9	5.2			
9	0	0 E	6.8	6.3	532	31	12	5.8	5.0			
10	0	0 E	6.7*	6.5	237	21*	10	6.2	4.9			
11	0	0 E	6.3	6.5	311	15	10	7.4	4.2	*		
12	0	0 E	6.0	6.0	153	9.8	9.5	7.0	3.9	N	N	N
13	0	0 E	6.7	5.7	95	8.6	15	6.1	4.1	O	O	O
14	0	8.0 E	6.0	4.7	77	9.4	10	6.2	3.9			
15	0	5.0 E	5.2	4.9	155	334	9	5.6	3.3			
16	0	3.5 E	8.4	4.9	125	117	8.6	4.5	2.8	F	F	F
17	0	3.5 E	89	4.5	83	443	7.5*	3.5	2.6	L	L	L
18	0	22 E	54	4.3	68	109	6.5	3.0	2.1	O	O	O
19	0	11 E	38	4.3	58	72	5.7	3.0	1.5	W	W	W
20	0	7.0 E	30	4.1	45	162	5.2	3.6	0.9			
21	0	5.0 E	23	3.9	36	86	6.5	4.1	0.5			
22	0	4.5 E	19	3.9	30	73	12	3.7	0.2			
23	0	4.5 E	17	3.7	23	284	13	3.1	0			
24	0	7.0 E	15	3.7	20	151	10	3.0	0			
25	0	50 E	14	3.5	18	161	7.6	3.0	0			
26	0*E	350 E	12	4.9	16	141	5.2	3.0	0			
27	0 E	130 E	11	8.0 E	14	129	3.9	3.0	0			
28	0 E	40 E	9.9	5.5 E	12	108	3.2	2.8	0			
29	0 E	23 E	8.7*	7.0 E		70	4.0	3.0	0			
30	0 E	17 E	8.6	80 *E		57	4.1	3.6	0			
31	0 E		8.2	809 *		48		4.4				
Mean	0	23.0	19.3	33.9	109	87.5	13.1	4.9	2.9	0	0	0
Max. Mean	0	350 E	89	809	532	443	42	8.4	7.6	0	0	0
Min. Mean	0	0 E	5.2	3.5	12	7.9	3.2	2.8	0	0	0	0
Ac.-Ft.	0	1371	1186	2082	6058	5380	780	301	172	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 17330

* Discharge measurement or observation of no flow made on this day.

TABLE 97

DAILY MEAN DISCHARGE
FEATHER RIVER AT YUBA CITY

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1200	1170	3240	1990	13800	3180	5800	2890	2510	709	687	800
2	1220	1150	6420	1940	9700*	3080	5850	3220	3060	698	681	651
3	1220	1130	6520	1880	9580	2930	6330	3020	3060	708	675	484
4	1170	1130	4580	1990	7410	3010	7330	2720	2950	707	669	418
5	961	1050	3690	1960	5620	2980	7900	2680	2650	718	675	412
6	955	939	3340	1980	4500	3150	7170	2520	2310	714	689	472
7	1020	958	3080	1960	4250	3280	6550	2860	1940	734	738	542
8	1050	1000	2980	1960	3660*	3160	6070	2620	1530	736	759	559
9	1010	1240	2940	1970	4810	3340	5490	2460	1580	725	780	568
10	1010	1230	2970	2100	14100*	3650	5240	2740	1450	718	788	508
11	1010	1220	3020	2170	12000	3520	4840	4060	1180	701	757	534
12	939	1480	3020	2050	12200	3440	4570	4100	1030	680	781	550
13	853	2170	3010	1970	9080	3280	4890	3820	1050	660	805	639
14	946	3110	3000	1870	7290	3300	4260	3680	1220	643	844	550
15	813	3230	3010	1800	6550	5600	3870	3420	1120	621	855	547
16	762	3020	3070	1780	7120	7780*	3620	3540	1020	613	870	592
17	755	2820	3850	1780	6650	7470	3720	3630	924	634	873	673
18	726	2870	5200	1770	5700	7070	4000	3640	835	663	854	752
19	706	3720	4670	1830	5170	5830	3760*	3850	663	670	839	775
20	722	3290	4200	1770	4700	5850	3040	4090	611	692	860	786
21	723	2940	3910*	1710	4560	6370	2650	4010	647	732	932	776
22	701	2650*	3730	1560	4410	5930	3130	3750	567	759	930	817
23	704	2330	3610	1450	3910	6760	3330	3470	524	750	927	816
24	698	2270	3530	1590	3890	8480	2980	3250	514	769	916	819
25	738	2460	3470	1440*	3670	9620	2620	3020	508	779	906	808
26	947	5100	3410	1930	3490	8210	2470	2910	524	774	914	761
27	1000*	5030	3340	1870	3330	7740	2470	2800	567	751*	978	609
28	1050	3890	2970	2140	3360	7720	2430	2260	727*	739	1060	568
29	1040	3360	2530	2030		6680	2510	2120	745	725	975	542
30	1100	3150	2380	3050		6210	2730	2060	744	692	830	526
31	1170		2160	6330		5940		2220		698	828*	
Mean	933	2370	3576	2052	6590	5308	4387	3143	1292	707	828	629
Max. Mean	1220	5100	6520	6330	14100	9620	7900	4100	3060	779	1060	819
Min. Mean	698	939	2160	1440	3330	2930	2430	2060	508	613	669	412
Ac.-Ft.	57360	141000	219900	126200	366000	326400	261100	193200	76880	43460	50930	37400

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1900000

* Discharge measurement made on this day.

TABLE 98

DAILY MEAN DISCHARGE
DEER CREEK NEAR NEVADA CITY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	1.8	8.8	2.9	13	2.9	7.3	3.2	9.1	16	23	17
2	16	1.5	12	2.9	12	3.0	6.9	2.6	8.6	16	23	18
3	17	2.6	6.1	3.1	9.9	2.9	6.9	2.5	8.2	16	22	17
4	17	2.4	4.3	3.5	5.7	2.8	7.0	2.3	7.6	17	21	16
5	17	2.2	3.5	3.5	5.0	4.9	7.1	2.9	7.6	17	20	17
6	19	2.5	2.9	3.6	5.0	3.7	6.6	3.4	7.1	17	20	17
7	18	2.0	2.7	3.8	5.0	3.0	6.2	2.8	7.1	16	21	17
8	19	1.8	2.2	3.6	4.6	4.2	3.5	2.8	7.1	16	20	18
9	19	1.7	1.9	3.5	15	6.6	3.3	2.8	7.1	14	21	18
10	22	2.3	2.5	3.6	15	4.0	3.4	3.4	7.0	14	21	18
11	22	4.8	2.8	3.6	25	4.3	3.4*	3.0	8.0	14	21	19
12	24	6.8	2.7	3.3	15	3.0	4.7	2.7	7.8	17	21	19
13	22	18	2.5	3.5	7.5	5.5	4.5	2.0	9.8	21	21	19
14	20	6.5	2.9	3.3	5.6	5.3	4.0	1.8	12	20*	21	19
15	19	3.4	3.9	2.9	7.7	31	4.1	1.6	12	20	21	19
16	19	2.3	4.2	2.8	7.1	14	4.1	1.6	12	20	20*	20
17	15	2.1	6.3	2.8	5.5	23	3.8	1.6	18	20	20	21
18	2.9*	5.6	4.2	2.6	4.7	12	3.4	1.8	24	20	20	20
19	2.3	3.1	3.8	2.6	4.3	12	3.2	1.7	24	20	21	19
20	2.1	2.3	3.5	2.9	4.4	15	3.5	1.6	24	20	21	19
21	1.8	2.5	3.5	2.9	3.9	9.4	4.6	1.8	23	20	18	19
22	1.7	2.1*	3.6	2.9	3.8	8.3*	8.6	1.8	23	20	16	18
23	2.1	1.9	3.5	2.6	3.6	14	11	1.6	23	21	16	15
24	2.3	1.7	3.3	2.8	3.4	18	7.4	1.6	23	22	16	15
25	2.1	4.8	3.1	3.0	3.4	18	4.8	1.7	23	24	16	15
26	2.4	25	2.9	3.5	3.3	18	3.8	1.8	23	23	17	15
27	2.4	5.0	2.7	3.2*	3.0	19	3.6	1.7	20	22	17	15
28	2.4	3.1	2.7*	3.5	2.9*	16	3.3	1.6	16	22	16	16
29	1.8	2.7	2.8	5.8		13	3.0	3.7	16	23	16	17
30	2.0	3.1	2.8	6.0		11	2.6	7.8	16	22	16	17
31	1.9		2.9	22		9		8.4		23	17	
Mean	11.4	4.3	3.8	4.0	7.3	10.2	5.0	2.6	14.5	19.1	19.4	17.6
Max. Mean	24	25	12	22	25	31	11	8.4	24	24	23	21
Min. Mean	1.7	1.5	1.9	2.6	2.9	2.8	2.6	1.6	7.0	14	16	15
Ac-Ft.	699	253	233	243	405	628	297	162	861	1176	1190	1049

E – Estimated NR – No Record

Total Discharge in Acre-Feet 7196

* Discharge measurement made on this day.

TABLE 99

DAILY MEAN DISCHARGE
FEATHER RIVER BELOW SHANGHAI BEND

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1350	1200	3700	2480	17700 *	4100 E	8430	4670	3880	877	733	769
2	1380	1150	7000 E	2440	12100 *	4000 E	8550	5010	4480	871	712	656
3	1390	1130	7500 E	2380	11500	3800 E	9390	4800	4570	880	707	511
4	1380	1120	6000 E	2460	9500 E	4000 E	11100	4410	4400	860	697	445
5	1170	1080	5000 E	2440	7500 E	3900 E	12100	4330	3890	843	694	420
6	1140	981	3880	2470	6000 E	4100 E	10900	4090	3500	898	738	466
7	1170	990	3600	2460	5600 E	4300 E	9850	4490	3140	909	789	551
8	1210	1020	3480	2530	5000	4100 E	9070	4270	2600	899	798	567
9	1170	1240	3420	2540	6000 E	4200 E	8140	4010	2560	908	817	588
10	1150	1240	3440	2690	19600 *E	4500 E	7790	4370	2340	867	800	530
11	1170	1250	3490	2790	16900	4440	7220	6290	1990	804	771	545
12	1050	1530	3500	2690	17600	4380	6730	6380	1730	792	814	564
13	931	2220	3470	2600	12500	4280	7240	5970	1690	774	847	645
14	991	3090	3470	2510	9420	4250	6530	5720	1860	732	878	560 *
15	886	3190	3490	2440	8140	7200	5880	5450	1700	692	881	557
16	821	3030	3550	2410	9030	11100 *	5490	5440	1560	705	891	600
17	799	2830	4310	2410	8350	10600	5560	5550	1420	736	850	678
18	777	2860	5920	2400	7020	10200	6010	5540	1290	731	850	806
19	762	3710	5440	2480	6400 E	8090	5880 *	5860	1050 E	759	824	810
20	762	3460	4870	2460	6000 E	8060	4870	6270	900 E	759	892	789
21	767	3160 E	4540 *	2350	5700 E	9100	4200	6160	850 E	832	933	763
22	749	2920 *E	4340	2190	5500 E	8420	4640	5790	840 E	816	914	793
23	749	2680	4210	2100	5000 E	9430	5210	5430	750 E	797	921	796
24	742	2650	4120	2230	5000 E	12400	4830	5130	700 E	827	882	788
25	760	2820	4050	2100 *	4700 E	14600	4170	4710	700 E	803	895	795
26	938	5590	3980	2540	4600 E	12400	3940	4550	700 E	786 *	901	747
27	1010 *	5880	3920	2410	4500 E	11600	3920	4380	720 E	790	972	608
28	1060	4400	3570	2620	4400 E	11700	3920	3690	860 E	786	1020	562
29	1050	3840	3140	2450		10000	4070	3410 E	917	744	858	535 E
30	1110	3590	2940	3260		9080	4380	3310 E	903 *	742	764	518 E
31	1220		2710	6290		8620		3520 E		747	808	
Mean	1020	2528	4195	2601	8616	7450	6667	4936	1950	805	834	632
Max. Mean	1390	5880	7500 E	6290	19600 E	14600	12100	6380	4570	909	1020	810
Min. Mean	742	981	2710	2100	4400 E	3800 E	3920	3310	700 E	692	694	420
Ac-Ft.	62710	150400	258000	159900	478500	458100	396700	303500	116000	49520	51280	37610

E – Estimated NR – No Record

Total Discharge in Acre-Feet 2522000

* Discharge measurement made on this day.

TABLE 100

DAILY MEAN DISCHARGE
BEAR RIVER NEAR COLFAX

In second-feet

Date	1960 Oct.	1960 Nov	1960 Dec.	1961 Jan.	1961 Feb.	1961 Mar.	1961 Apr.	1961 May	1961 June	1961 July	1961 Aug.	1961 Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15				DATA NOT SUFFICIENT TO COMPUTE DAILY DISCHARGE DURING PERIOD OF RECORD								
16				RESULTS OF MEASUREMENTS MADE LISTED IN TABLE 65 OF REPORT								
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac.-Ft.												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

Station discontinued March 2, 1961.

TABLE 101

DAILY MEAN DISCHARGE
WOLF CREEK NEAR WOLF

In second-feet

Date	1960 Oct.	1960 Nov.	1960 Dec.	1961 Jan.	1961 Feb.	1961 Mar.	1961 Apr.	1961 May	1961 June	1961 July	1961 Aug.	1961 Sept.
1	6.0	3.1	98	22	200 E	34	69	27	22	3.9	2.9	9.8
2	9.0	3.3	162	22	150 E	26	60	33	23	3.3	3.3	13
3	9.5	3.6	79	22	140 E	42	61	26	23	5.0	3.7	7.4
4	8.2	6.5	47	21	100 E	40	49	22	19	5.3	10	6.5
5	6.6	6.6	40	21	80 E	44	45	21	17	4.9	7.2	8.1
6	6.5	7.1	36	21	70 E	77	45	30	14	6.4	3.8	8.2
7	8.1	8.2	31	21	70 E	45	44	29	13	5.1	6.7	9.4
8	9.5	7.5	30	21	65 E	39	40	37	11	5.1	7.1	9.7
9	9.9	6.4	28	25	150 E	129	37	46	11	4.2	5.0	8.7
10	12	7.0*	29	22	200 E	64	39	32	13	4.8	4.0	8.6
11	12	18	33	22	700 E	53	37	28	15	7.5	4.5	8.2
12	11	57	28	21	320 E	50	49	63	13	10	5.4	7.2
13	14	102	27	20	230 E	42	50	26	13	8.0	5.7	6.6
14	12	89	26	20	190 E	41	34	22	12	7.1*	5.3	7.6
15	11	42	28	20	250 E	626	24	20	12	7.4	6.0	8.2*
16	10	28	31	21	150 E	202	21	19	12	3.8	6.4*	7.6
17	9.9	23	103	20	110 E	347	21	19	10	4.0	5.0	12
18	7.3*	88	50	22	85 E	157	21	18	9.1	6.3	3.9	19
19	5.3	38	39	20	70 E	118	18	17	9.5	3.6	5.5	14
20	5.0	28	35	20	58 E	161	19	16	9.8	3.1	6.6	9.0
21	5.0	28	33	21	60 E	100	22	19	9.1	4.1	6.1	11
22	6.2	25	31	21	54 E	81 *	104	18	10	4.4	6.1	11
23	5.1	22	29	21	50 E	195	124	17	10	5.8	7.5	11
24	5.2	22	28	21	45 E	228	58	16	9.0	3.8	9.3	11
25	6.1	41	27	21	40 E	293	48	15	6.9	2.1	7.8	9.9
26	7.3	621	26	35	40 E	219	34	13	6.2	1.2	9.8	8.9
27	7.0	101	24	38 *	38 E	219	28	14	7.0	1.7	12	10
28	5.0	53	24 *	28 E	36 *E	180	28	14	5.1	1.3	15	9.7
29	4.7	41	24	40 E		130	25	15	3.6	1.4	14	12
30	3.3	36	23	90 E		102	23	15	4.4	2.2	11	14
31	3.2		22	400 E		87		15		1.1	10	
Mean	7.8	52.1	41.0	37.4	134	135	42.6	23.3	11.8	4.4	7.0	9.9
Max. Mean	14	621	162	400 E	700 E	626	124	63	23	10	15	19
Min. Mean	3.2	3.1	22	20	36 E	34	18	13	3.6	1.1	2.9	6.5
Ac.-Ft.	478	3099	2521	2301	7440	8293	2533	1432	700	274	430	590

E - Estimated NR - No Record

Total Discharge in Acre-Feet 30090

* Discharge measurement made on this day.

TABLE 102

DAILY MEAN DISCHARGE
AUBURN RAVINE AT LINCOLN

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11				107	24	28	6.5	7.3	0.5	1.7	1.8
2	11				83*	24	29	7.6	4.5	0.6	1.7	2.1
3					63	27	28*	7.2	3.7	0.6	1.8	4.3
4					45	28	24	5.4	2.6	0.6	1.3	1.3
5					38	30	23	4.5	2.4	0.9	1.5	0.8
6					40	38	24	4.4	1.8	1.7	2.2	0.7
7					37	27*	23	5.7	1.4	2.2	2.1	0.9
8					38	26	25	5.2	1.6	2.0	1.9	1.8
9					81	37	28	2.5	1.4	1.4	1.4	2.8
10					75	28	24	2.8	1.6	1.2	1.8	1.8
11					82	27	20	3.8	1.7	1.6*	2.4	2.2
12					67	23	18	4.0	2.3	1.6	2.5	1.7
13					53	23	19	3.2	2.5	1.0	2.6	1.8
14					50	23	12	3.2	1.8	0.9	4.5	3.1
15					61	174	15	2.4	0.8	0.9	3.9	3.0
16					56	66	8.2	1.5	0.5	0.8	2.7	4.0
17	*				45	141	11	1.6	0.5	0.9	2.7	13
18				21*	37	67	6.5	1.8	0.3	0.7	13	12
19				18	33	49	8.4	1.3	0.3	0.6	1.8	12
20				19	32	48	6.2	1.5	0.3	0.7	1.9	6.6
21				17	31	43	5.8	2.7	0.4	1.4	0.7	3.1
22				16	29	35	20	3.2	1.0	1.4	0.7	3.7
23				16	30	59	32	2.8	0.5	1.2	1.0	5.3
24				16	25	56	25	2.1	0.2	1.6	1.1	7.5
25				23	25	61	11	1.6	0.2	1.4	1.4	7.2
26				42	24	46	7.9*	1.5	0.2	1.3	2.2	4.1
27				34	24	44	6.8	1.9	0.3	1.4	4.1	4.1
28				21	23	39	5.4	1.1	0.3	1.5	5.3	4.6
29				42		37	4.7	1.7	0.4	1.4	4.1	4.3
30				44		29	4.2	1.8	0.4	2.0	4.6*	5.3
31				244		26		2.1		2.2	5.1	
Mean					47.6	45.3	16.8	3.2	1.4	1.2	2.8	4.2
Max. Mean					107	174	32	7.6	7.3	2.2	13	13
Min. Mean					23	23	4.2	1.1	0.2	0.5	0.7	0.7
Ac.-Ft.					2646	2728	998	196	86	76	170	252

E - Estimated NR - No Record

Total Discharge in Acre-Feet

Station discontinued October 3, 1961
and reinstalled January 17, 1961.

* Discharge measurement made on this day.

TABLE 103

DAILY MEAN DISCHARGE
COON CREEK AT HIGHWAY 99E

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2				248	26	41	19	28	4.1	0.3	4.3
2	10				225*	26	39	26	27	5.0	0.3	3.4
3					179	25	33	21	27	6.7	0	6.5
4					86	24	30	18	21	5.2	0	5.6
5					61	24	24	14	17	5.6	0	2.1
6					51	30	22	14	14	6.7	0	3.0
7					42	26	22	20	15	5.5	0	1.9
8					39	23	22	17	14	5.5	0	1.2
9					173	41	20	9.6	13	5.8	0	1.1
10					227	31	22	9.3	13	5.2	0	1.7
11					210	29	19	15	15	1.6*	0	2.1
12					155	26	19	17	13	0.3	0	0.9
13					91	26	24	15	11	0	0.1	4.1
14					67	25	20	13	9.0	0.1	0.3	0.2
15					74	284	17	12	6.6	1.8	0	1.7
16					97	111	27	11	5.0	0	0	6.2
17	*				61	241	23	13	6.4	2.3	0	17
18				17*	49	103	17	15	5.4	0.9	0	20
19				18	43	66	12	16	5.6	0	0.2	20
20				16	41	70	7.7	16	6.1	0	0	16
21				14	40	54	8.2	14	5.0	0	0.3	17
22				14	36	46	27	13	0.1	0	1.3	16
23				13	35	87	47	13	0	0	1.1	14
24				13	31	92	34	10	0.2	0	0.1	12
25				13	29	178	25	5.6 E	6.1	0	0	13
26				25	29	92	18	8.3	8.9 E	0	0.6	15
27				34	28	87	15	7.8	7.3	0	1.6	15
28				22	27	72	11	8.7	6.5	0.4*	4.5	14
29				39		53	13	9.2	6.7	1.1	3.5	14
30				107		47	16	10	2.8	0.8	1.7	13
31				550		43		17		1.2	2.5	
Mean					88.4	68.0	22.5	13.8	10.5	2.1	0.6	8.7
Max. Mean					248	284	47	26	28	6.7	4.5	20
Min. Mean					27	23	7.7	5.6	0	0.1	0	0.2
Ac.-Ft.					4907	4181	1339	848	626	131	36	520

E - Estimated NR - No Record

Total Discharge in Acre-Feet

Station discontinued October 3, 1960
and reinstalled January 17, 1961.

* Discharge measurement made on this day.

TABLE 104

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1001 DRAINAGE TO NATOMAS CROSS CANAL

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14				RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	3.6	1.7	1.8	17.7	5.3	4.8	16.9	1.8	0	0	0
Max. Mean												
Min. Mean												
Ac.-Ft.	0	214	103	108	982	327	286	1040	106	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3166

TABLE 105

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (PRICHARD LAKE)

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11	N	N	N	N	N	N	N	N	N	N	N	N
12	O	O	O	O	O	O	O	O	O	O	O	O
13												
14												
15	P	P	P	P	P	P	P	P	P	P	P	P
	U	U	U	U	U	U	U	U	U	U	U	U
16	M	M	M	M	M	M	M	M	M	M	M	M
17	P	P	P	P	P	P	P	P	P	P	P	P
18	I	I	I	I	I	I	I	I	I	I	I	I
19	N	N	N	N	N	N	N	N	N	N	N	N
20	G	O	O	G	O	G	O	G	O	O	G	G
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Max. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	0	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 0

TABLE 106

DAILY MEAN DISCHARGE
SACRAMENTO WEIR SPILL TO YOLO BYPASS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Max. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	0	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 107

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (SECOND BANNON SLOUGH)

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	177	24	0	0	55	0	0	33
2	0	0	0	0	155	29	0	0	95	0	0	55
3	0	0	50	0	99	20	0	63	95	0	0	17
4	0	0	0	0	63	15	36	0	63	0	0	0
5	0	0	0	0	58	23	0	0	67	0	63	22
6	0	0	0	29	67	19	0	0	56	0	0	0
7	0	0	59	15	49*	19	52	0	32	0	16	25
8	0	0	0	0	50	0	0	0	0	0	0	0
9	0	0	0	0	49	23	0	0	30	0	0	54
10	48	0	0	0	75	0	49	36	0	0	0	54
11	0	0	0	0	52	0	0	0	0	0	34	51
12	0	0	26	23	57	0	0	0	0	0	0	40
13	0	0	16	0	67	0	0	44	0	0	33	47
14	0	49	5.4	0	46	59	0	44	0	0	37	43
15	0	0	18	0	51	0	0	66	0	0	50	57
16	0	0	0	51	65	0	29	25	0	0	12	57
17	0	0	15	0	55	33	0	36	0	0	26	0
18	0	45	0	0	59	0	21	30	0	0	0	29
19	0	0	11	0	42	0	27	49	0	0	41	0
20	0	0	20	0	48	42	0	75	0	0	0	38
21	0	0	0	0	0	0	0	60	0	0	47	26
22	0	0	0	0	72	0	0	68	0	0	0	0
23	0	34	22	0	46	53	0	55	0	0	0	0
24	0	0	41	0	34	53	0	0	0	0	25	0
25	0	0	0	0	38	53	0	14	0	0	0	0
26	0	45	0	64	0	42	0	36	0	0	58	0
27	0	0	0	62	51	52	0	16	0	0	38	0
28	0	23	0	0	41	0	0	22	0	25	37	0
29	0	0	0	0		0	0	0	0	33	36	0
30	0	95	0	72		0	0	33	0	0	39	0
31	0		173	43		0		40		0	43	
Mean	1.5	9.7	14.7	11.6	59.5	18.0	7.1	26.2	16.4	1.9	20.5	21.6
Max. Mean	48	95	173	72	177	59	52	75	95	33	63	57
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	95	577	905	712	3299	1109	424	1608	978	115	1260	1285

E - Estimated NR - No Record

Total Discharge in Acre-Feet 12370

* Discharge measurement made on this day.

TABLE 108

DAILY MEAN DISCHARGE
LINDA CREEK NEAR ROSEVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	25	74	41	350 *E	61	54	59	41	13	6.7	19
2	19	26	104	41	242	69	52	64	44	11	6.8	17
3	21	31	67	43	169	65	48*	59	41	11	8.8	14
4	23	36	56	42	94	65	48	50	37	13	8.8	15
5	25	37	51	43	81	67	50	39	36	14	8.6	15
6	27	40	48	43	75	77	43	41	36	13	8.0	15
7	26	46	47	42	71	66	43	45	36	12	6.0	16
8	27	43	44	40	69	67*	42	45	38	12	6.6	20
9	25	39	42	39	128	75	41	39	38	10	8.7	20
10	25	38 *	45	41	135	68	41	36	36	8.5	8.4	18
11	29	41	57	40	123	63	41	42	36	7.4	9.9	16
12	27	68	50	40	114	61	43	40	39	4.6	11	16
13	26	128	46	40	86	63	45	40	37	4.5	11	15
14	23	116	46	39	82	76	44	36	30	6.8*	12	18
15	22	59	45	41	84	373	41	32	29	7.5	14	20
16	20	43	47	40	97	135	40	28	19	8.0	13	23
17	19*	38	48	40	82	369	39	27	15	7.7	11	35
18	18	71	47	38	74	125	40	26	14	7.6	11	40
19	21	62	45	35	72	94	37	26	15	6.6	11	41
20	24	51	44 *	42	72	91	36	26	12	5.8	13	37
21	23	48	46	38	68	83	40	25	11	8.6	13	28
22	24	46	43	39	68	73	67	22	9.5	13	14	28
23	23	40	43	40	68	96	120	25	12	16	15	22
24	24	37	43	43	63	89	82	25	10	15	19	21
25	28	51	42	43	64	97	72	26 E	8.6	12	19	21
26	30	435	41	90	62	80	59	27 E	7.3	11	18	19
27	28	125	44	68	59	76	52	27 E	7.7	7.1	17	15
28	27	68	45	54 E	57	69	50	27 E	6.9	4.7	21	13
29	30	58	43	90 E		60	47	33 E	9.5	4.3	22	13
30	27	54	42	150 E		55	52	36	12	3.6	19*	18
31	25		42	800 E		52		37		5.8	20	
Mean	24.2	66.7	49.3	73.1	100	95.5	50.3	35.8	24.1	9.2	12.6	20.9
Max. Mean	30	435	104	800 E	350 E	373	120	64	44	16	22	41
Min. Mean	15	25	41	35	57	52	36	22	6.9	3.6	6.0	13
Ac.-Ft.	1490	3967	3029	4493	5572	5871	2993	2202	1435	565	776	1246

E - Estimated NR - No Record

Total Discharge in Acre-Feet 33640

* Discharge measurement made on this day.

TABLE 109

DAILY MEAN INFLOW
FOLSOM LAKE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	179	448	1550	797	3250	1130	3440	4390	3570	576	393	384
2	141	445	3940	735	2490	1160	4230	4210	3770	592	517	29[illegible]
3	187	596	2420	671	2900	1380	6010	3930	3590	540	558	278
4	202	468	1680	749	2440	1400	6930	4150	3240	450	497	196
5	248	504	1320	719	1730	1250	6420	3890	3120	588	572	134
6	313	495	1080	672	1420	1490	5210	3300	3530	843	371	264
7	317	571	1090	702	1330	1420	4980	3280	3430	754	251	[illegible]20
8	408	535	1020	722	1170	1380	4240	3060	3220	811	369	282
9	421	539	971	794	1610	1570	3960	3950	2900	556	555	338
10	329	490	1010	816	5890	1640	3840	5300	2500	574	373	284
11	321	812	1070	683	5850	1540	3520	5690	2180	573	487	180
12	380	880	900	795	5350	1650	4160	4770	1960	810	409	189
13	377	1440	995	736	3470	1560	4050	4750	2280	644	337	232
14	364	1540	823	716	2620	1840	3430	4370	2510	591	200	[illegible]27
15	294	1080	959	768	2420	3570	3360	4790	2030	651	318	[illegible]05
16	369	954	937	686	2560	3470	3760	4780	1820	523	395	[illegible]52
17	402	752	910	608	2120	3540	4530	4940	1780	454	521	305
18	414	1130	1200	620	1900	3140	4650	4970	1310	475	451	216
19	426	1330	1170	575	1770	2660	3650	5190	1280	672	445	285
20	456	1120	1040	470	1520	2740	2960	5030	1340	672	[illegible]20	413
21	455	860	975	476	1500	3360	2790	4720	1320	604	247	[illegible]55
22	509	820	965	590	1550	3220	3100	4710	1220	658	[illegible]40	[illegible]20
23	472	742	933	433	1540	3940	[illegible]020	4980	1170	409	465	[illegible]09
24	391	762	926	501	1380	4[illegible]50	2880	4740	1100	255	443	b [illegible]26
25	467	1340	900	606	1350	4780	2540	4870	864	371	402	185
26	471	2170	830	739	12[illegible]0	3790	2670	4640	770	48[illegible]	429	198
27	458	1660	899	678	1280	3840	[illegible]130	4160	759	589	[illegible]06	277
28	476	1100	808	725	1160	3510	3690	3680	677	570	245	375
29	544	966	817	1020		3060	4210	[illegible]330	655	[illegible]38	[illegible]17	[illegible]50
30	501	846	751	855		2950	a 4140	3090	660	310	485	[illegible]33
31	499		827	2170		[illegible]150		[illegible]150		274	480	
Mean	380	913	1152	736	2314	2564	[illegible]983	4349	2018	562	40[illegible]	287
Max. Mean	544	2170	3940	2170	5890	4780	6930	5690	3770	84[illegible]	572	41[illegible]
Min. Mean	141	445	751	433	1160	11[illegible]0	[illegible]540	[illegible]060	655	255	[illegible]00	1[illegible]4
Ac.-Ft	23390	54340	70840	45280	128[illegible]0	157650	[illegible]36680	267[illegible]90	120110	[illegible]4530	24780	17090

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1180610

a 23 hour day.
b 25 hour day.

TABLE 110

DAILY MEAN DISCHARGE
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 2)

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0.2							
2				0	0							
3				0	0							
4				0	0							
5				0	0							
6				0	0							
7				0	0							
8				0	0							*
9				0	0							
10				0	0			*				
11				0	0							
12	N	N	N	0	0	N	N	N	N	N	N	N
13	O	O	O	0	0	O	O	O	O	O	O	O
14				0	0							
15				0	0							
16	F	F *	F	0	0	F	F	F	F *	F	F	F
17	L	L	L	0	0	L	L	L	L	L	L	L
18	O *	O	O	0	0	O	O	O	O	O	O	O
19	W	W	W	0	0	W	W	W	W	W	W	W
20				0 *	0							
21				0	0							*
22				0	0	*						
23				0	0							
24				0	0					*		
25				0	0							
26				0	0							
27				0	0							
28				0	0 *						*	
29				0								
30				0								
31				4.2								
Mean	0	0	0	0.1	0	0	0	0	0	0	0	0
Max. Mean	0	0	0	4.2	0.2	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	8	0	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 8

* Observation of no flow made on this day.

TABLE 111

DAILY MEAN DISCHARGE
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 1)

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.4	5.0	36	3.9	20	3.7	3.4	8.0	4.6	7.5	6.5	6.4
2	4.6	4.9	39	5.0	105 *	5.2	4.1	6.0	4.6	7.3	6.6	6.3
3	5.3	10	7.5	5.3	24	6.3	4.2	4.5	5.5	6.8	7.2	5.6
4	4.4	10	5.4	4.5	8.6	6.5	4.2	4.8	5.9	5.7	7.5	7.0
5	4.5	5.8	5.0	4.2	6.0	7.0	3.8	3.9	6.1	5.7	7.1	7.7
6	4.5	11	4.5	4.0	5.4	8.5	3.7	4.4	5.5	6.2	6.9	6.7
7	4.6	13	4.4	4.2	6.0	6.5	3.7	4.0	5.3	6.7	7.8	6.3
8	4.4	6.0	4.5	4.2	5.1	6.5	4.2	5.1	5.6	7.1	7.8	5.7
9	3.7	4.9	4.4	4.3	28	11	4.6	4.8	5.4	7.0	7.7	5.7
10	4.4	4.4	8.7	4.1	11	7.1	4.5	4.5	6.1	7.6	7.9	5.9
11	3.9	11	12	4.1	32	6.8	4.2	5.0	6.0	7.8	6.9	6.9
12	6.2	55	5.7	4.2	8.0	6.3	4.6	15	6.2	7.9	6.7	6.5
13	4.3	50 E	4.8	4.1	12	6.5	5.0	5.2	6.7	7.4	6.6	5.8*
14	4.3	40 E	4.5	4.3	10	7.6	4.1	5.0	7.6	7.2	6.6	5.5
15	4.2	7.4	7.1	4.1	14	91	4.0	5.4	8.5	7.4	6.7	5.7
16	4.2	5.1	5.7	4.2	14	5.8	5.2	5.8	8.9	7.3	6.7	6.0
17	5.1	5.2	5.4	4.1	4.8	62	5.2	5.2	9.0	7.8	6.9	6.6
18	4.8	19	4.5	4.0	4.4	5.8	4.0	5.2	7.0	7.8	6.7	5.9
19	4.7	7.9	4.7	4.2	3.9	4.2	4.3	5.4	7.0	8.1	7.1	5.6
20	4.8	5.2	4.5	4.4	4.1	6.1	4.1	4.8	8.1	7.9	7.2	5.5
21	5.2	4.9	4.5*	4.4	3.8	3.7	4.1	4.8	8.6	7.4	8.3	6.1*
22	5.3	4.5	4.6	4.1	3.9	3.6	14	5.7	7.8	7.4	6.7	5.4
23	5.0	4.6	4.4	5.5	3.8	11	12	5.1	7.1	6.7	6.4	6.1
24	4.8	4.5	4.5	5.4	3.7	7.5	7.1	5.2	8.0	7.3	6.1	5.8
25	4.8*	8.7	4.2	12	3.9	6.6	4.9	5.6	7.8	7.1	6.3	6.2
26	5.2	79	4.2	123	3.3	4.0	4.6	5.4	7.6	6.8	6.2	6.1
27	4.4	12	4.4	13 *	3.7	20	4.8	5.4	7.1	7.0	5.9	6.0
28	4.8	6.4	5.0	6.5	3.7*	26	4.8	5.5	6.5	7.4	6.4	5.9
29	5.2	5.3	5.0	89		3.7	5.1	4.9	6.5	7.0	6.6	5.5
30	5.1	6.6	5.0	58		3.7	4.7	4.7	7.1	6.4	6.6	6.9
31	5.6		5.1	195		3.7		5.2		6.5	6.6	
Mean	4.7	13.9	7.4	19.4	12.7	11.7	5.0	5.5	6.8	7.1	6.9	6.1
Max. Mean	5.6	55	39	195	105	91	14	15	9.0	8.1	8.3	7.7
Min. Mean	3.7	4.4	4.2	3.9	3.3	3.6	3.4	3.9	4.6	5.7	5.9	5.4
Ac.-Ft.	291	828	455	1193	706	722	300	336	404	439	423	364

E - Estimated NR - No Record

Total Discharge in Acre-Feet 6461

* Discharge measurement made on this day.

TABLE 112

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT SACRAMENTO

In second-feet

Date	1960			1961									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7970	7930	15400	12600	31700	24300	26500	10100	12600	9980	10900	10600
2	8170	8200	17300	12300	40600	23900	25200	10600	13700	9870	11200	9810
3	7890	8300	28100	12300	43100	23300	24600	11400*	14500	9890	11200	9790
4	8170	8400	32600	12500	44900	22300	24800	11600*	15300	9640	11300	9430
5	7970	8400	31700*	12700	46600	21900	25200	11600	15800	9560	11300	9170
6	8010*	8500	27700	12900	46300	21600	25500	11300	14900	9640	11700	9040
7	7970*	8500	23500	12700	41600	21900	24800	11000	14100	9600	11500	9320
8	8090	8600	20800	12700	35500	21900	23700	11700	13000	9830	11600	9220
9	8380	8700	18300	12700	30500	21900	22000	11700	12100	9890	11600	9500
10	8050	8800	17100	13300	30500	22400	20900	11600	11500	10100	11800	9950
11	8170	9000	17000	13700	39800	23700	19900	12000	10800	10100	11900	9870
12	8050	9100	15100	13700	45100	23700	18300	13900	10600	10100	11900	10100
13	7930	9600	14500*	13700	48500	23200	16100	14800	9870	10400	12000	10300
14	7720	11000	14000*	13400	49500*	23500	17400	14800	9680	10300	12300	10100
15	7440	13000	13400	13200	49100	23000	16000	14700	9260	10500	12300	10100
16	7520	15000	12900	13100	48000	28000	14800	13800	8750	10600	11600	9980
17	7400	14500	12800	12800	46900	32000	13800	14100	8660	10700	11500	10300
18	7440	12500	14600	12900	45400	34500	13400	14000	9040	10600	11400	10400
19	7110	12000	20500	12700	42900	34400	12800	14400	8390	10700	11200	10100
20	7110	12000	23400	12600	39600	34800	12300	15500	8500	11000	11100	10200
21	7070	12500	22200	11600	36400*	34500	11300	15600	8720*	11000	11100	9920
22	7400	12000	20700	11200	34000	34300	10700	15700	8980*	11400	11400	9570
23	6780	11500	18800	11100	31800	33500	11400	15000	9440	11500	11300	9410
24	7400	10900	17700	11000	30300	33600	12100	14500	9620	11500	11200	9350
25	7110	10700	16800	11000	28400	34700	12000	14100	9830	11400	11300	9290
26	7680	11400	15900	11200	26600	36400	11900	13900	10100	11200	11300	9220
27	7440	17800	15300	11800	25700	36700	11000	13700	10100	11300	11300	9450
28	7640	23900	14800	12400	25100	35700	10100	13100	10100	11200	11300	9120
29	7800	21000*	14200	14000		34700	9980	12500	10000	11200	11100	8920
30	7760	17300	13400	14100		32100	9460	11900	10100	11100	11100	9020
31	7760		12900	23100		29000		11800		11100	11100	
Mean	7690	11700	18500	12940	38730	28460	16930	13110	10930	10550	11450	9685
Max. Mean	8380	23900	32600	23100	49500	36700	26500	15700	15800	11500	12300	10600
Min. Mean	6780	7930	12800	11000	25100	21600	9460	10100	8390	9560	10900	8920
Ac.-Ft.	472900	696300	1137000	795400	2151000	1750000	1007000	806100	650700	648400	703700	576300

E - Estimated NR - No Record

Total Discharge in Acre-Feet 11390000

* Discharge measurement made on this day.

TABLE 113

DAILY MEAN DISCHARGE
MIDDLE CREEK NEAR UPPER LAKE

In second-feet

Date	1957			1958								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11						NO RECORD						
12												
13												
14					Records not sufficient to compute daily discharge							
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac.-Ft.												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 114

DAILY MEAN DISCHARGE
CLOVER CREEK AT UPPER LAKE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	59	9.1	69	20	40	15	7.5	2.5	0	
2	*	0	47*	8.6	73	19	36	15	7.9	3.1	0	
3		0	31	8.6	67	18	32	14	7.6	2.7	0	
4		0	10	8.8	61	17	29	12	7.3	2.6	0	
5		0	5.6	8.7	55	19	26	12	7.2	2.3	0	
6		0	4.9	8.5	46	23	25	12	7.6	1.7*	0	
7		0	5.1	8.6	40	21	22	13	7.1*	1.2	0.1	
8		0	5.3	8.7	35	32	21	11*	6.6	1.1	0*	
9		0	5.4	8.2	73	50	20	11	6.7	0.7	0	
10		0	5.7	7.9	68	47	18	12	6.4	0.4	0	
11		1.2	5.5	7.4	74	44	16	17	6.3	0.3	0	*
12	N	1.2	5.6	7.2	63	38	17*	16	7.4	0	0	N
13	0	5.2	5.6	7.0	61	34	16	15	6.1	0	0.5	0
14		0.5*	5.8	6.9	60*	44*	15	14	5.4	0	0	
15		0.1	8.8	6.7	61	59	13	12	5.1	0	0	
16	F	0	55	6.8*	58	57	13	11	4.9	0.1	0	F
17	L	0	56	6.6	56	57	13	9.8	4.7	0	0	L
18	O	0.2	49	7.1	53	52	12	10	4.3	0.1	0	O
19	W	0	42	7.3	51	50	12	9.4	4.2	0	0	W
20		0.1	32	7.3	48	49	11	9.6	3.8	0.1	0	
21		0.1	24	6.9	41	47	17	8.1	3.5	0.1	0	
22		0	20	7.0	37	47	27	8.7	3.6	0.1	0	
23		0.1	17	7.5	33	46	29	8.7	2.8	0.1	0	
24		0.1	14	7.5	29	47	26	8.5	2.8	0.2	0	
25		15	13	8.5	27	46	29	8.0	2.8	0.2	0	
26		16	12	35	24	49	21	8.1	3.3	0.2	0	
27		0.3	11	19	22	50	18	7.9	3.7	0	0	*
28	*	0.1	10	13	20	49	16	7.6	3.2	0	0	
29		0.2	10	43		54	17	7.3	2.5	0	0	
30		0.6	9.9	51		52	16	7.5	2.5	0.1	0	
31			9.1	82		45		7.3		0.1	0	
Mean	0	1.4	19.2	14.1	50.2	41.4	20.8	10.9	5.2	0.6	0	0
Max. Mean	0	16	59	82	74	59	40	17	7.9	3.1	0.5	0
Min. Mean	0	0	4.9	6.6	20	17	11	7.3	2.5	0	0	0
Ac-Ft.	0	81	1179	866	2787	2543	1236	671	307	40	1	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 9711

* Discharge measurement or observation of no flow made on this day.

TABLE 115

DAILY MEAN DISCHARGE
CLOVER CREEK BYPASS NEAR UPPER LAKE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			288 E	0	62	0						
2	*		103*	0	87	0						
3			1	0	42	0						
4			0	0	12	0						
5			0	0	0.1	0						
6			0	0	0	0				*		
7			0	0	0	0			*			
8			0	0	0	14		*			*	
9			0	0	106	7.5						
10			0	0	56	1.5						
11			0	0	179	0.4						*
12	N	N	0	0	106	0	N*	N	N	N	N	N
13	0	0	0	0	72	0	0	0	0	0	0	0
14		*	0	0	59	48*E						
15			0	0	72	108						
16	F	F	76	0*	50	86 E	F	F	F	F	F	F
17	L	L	116	0	33	148 E	L	L	L	L	L	L
18	O	O	54	0	19	86	0*	0	0	0	0	0
19	W	W	13	0	6.6	72	W	W	W	W	W	W
20			0*	0	0.3	58			*			
21			0	0	0	41						
22			0	0	0	33		*				
23			0	0	0	24						
24			0	0	0	34						
25			0	0	0	28						
26			0	9	0	38						
27			0*	0	0	33*						*
28	*		0	0	0	22						
29			0	57		6.6						
30			0	53		0.2						
31			0	182 E		0						
Mean	0	0	21.0	9.7	34.4	28.7	0	0	0	0	0	0
Max. Mean	0	0	288	182	179	148	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft.	0	0	1291	597	1908	1764	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 5560

* Discharge measurement or observation of no flow made on this day.

TABLE 116

DAILY MEAN DISCHARGE
SCOTT CREEK NEAR LAKEPORT

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	574	7.6	37	18	8.2			
2				0	284*	5.3	30	18	7.3*			*
3				0	106	14	26	16	6.2			
4				0	70	305	21 E	15	5.1			
5				0	224	630	33 E	14	4.6		*	
6				0*	94	355	35*	13	4.2			
7				0	798	819	29	12	3.9			
8			*	0	2300 E	452	24	12	3.2	*		
9				0	1710	210	22	11*	2.9			
10				0	948	112	21	10	2.6			
11				0	443	74	21	10	2.2			
12	N	N*	N	0	202	161	18	9.8	2.0	N	N	N
13	O	O	O	0	120	118	16	9.4	1.9	O	O	O
14				0	81	91	17	9.1	1.8			
15				0	61	99	14	9.1	1.5			
16	F	F	F	0	49	120	13	8.5	1.1*	F	F	F
17	L	L	L	0	42	99	12	8.2	1.1	L	L	L
18	O	O	O	0	43	52	12	7.0	1.0	O*	O	O
19	W	W	W	0	34	42	12	5.3	0.9	W	W	W
20				0	25	34	12	5.3	0.9			
21				29	22	32	14	5.7	0.8			
22				98	20	44	13	5.3	0.6			
23				43	15	39*	15	18	0.7			
24				231	12	29	21	92	4.4			
25				187*	11	26	16	43	2.8			
26				125	11	24	44*	27	1.9			
27				71	10	32	94	21	2.1			
28				86	8.8	45	36	17	0.6			
29	*			47	8.5	20	24	14	0			
30				43		134	20	12	0			
31				30		55		9.1				
Mean	0	0	0	31.9	287	138	24.1	15.6	2.6	0	0	0
Max. Mean	0	0	0	231	2300 E	819	94	92	8.2	0	0	0
Min. Mean	0	0	0	0	8.5	5.3	12	5.3	0	0	0	0
Ac.-Ft.	0	0	0	1964	16510	8489	1432	962	152	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 29510

* Discharge measurement or observation of no flow made on this day.

TABLE 117

DAILY MEAN DISCHARGE
SCOTT CREEK NEAR LAKEPORT

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1640 E	11	331	35	68	20	3.8			
2	*	0	455 *E	10	359	33	60	20	3.6			
3		0	164	9.3	253	31	55	17	3.3			
4		0	66	8.9	174	31	50	15	3.1			
5		0	33	8.7	123	34	46	13	2.9			
6		0	19	8.8	98	71	40	12	2.6	*		
7		0	14	8.6	77	55	36	13	2.5*		*	
8		0	10	10	69	108	33	12 *	2.0			
9		0	7.1	10	325	133	31	10	2.2			
10		0	14	10	220	120	28	11	2.0			
11		0	13	8.4	870	114	26	27	1.8			*
12	N	0	7.8	7.6	429	97	27 *	22	1.3	N	N	N
13	O	0	5.5	7.4	300	86	26	17	0.9	O	O	O
14		0 *	4.4	6.8	245 *	304 *	21	14	0.6			
15		0	154	6.5	275	637 E	19	13	0.4			
16	F	0	491	6.0*	221	462 E	18	13	0.2	F	F	F
17	L	0	435	5.4	175	615 E	16	12	0.1	L	L	L
18	O	0	228	4.9	137	363 E	16	10	0.1	O	O	O
19	W	0	136	4.5	107	257 E	16	9.6	0	W	W	W
20		0	86	3.2	89	192 E	15	8.8	0			
21		0	64	2.1	75	146 E	30	8.6	0			
22		0	50	1.9	65	122	59	8.5	0			
23		0	38	3.2	58	110	75	7.7	0			
24		0	33	3.9	52	126	37	6.9	0			
25		0	27	4.2	48	129	28	6.3	0			
26		0	24	139	44	129	21	6.0	0			*
27		0	21	60	39	122 *	18	5.7	0			
28	*	0	17 *·	33	37	105	15	5.5	0			
29		0	16	208		95	19	4.8	0			
30		1.9	14	254		82	21	4.4	0			
31			12	891		74		4.2				
Mean	0	0.1	139	56.7	189	162	32.3	11.5	1.1	0	0	0
Max. Mean	0	1.9	1640 E	891	870	637 E	75	27	3.8	0	0	0
Min. Mean	0	0	4.4	1.9	37	31	15	4.2	0	0	0	0
Ac.-Ft.	0	4	8527	3484	10500	9953	1924	710	66	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 35170

* Discharge measurement or observation of no flow made on this day.

TABLE 118

DAILY MEAN DISCHARGE
COPSEY CREEK NEAR LOWER LAKE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	217	0.7	47	4.8	4.9	2.1	0.7	0.2		
2	0*	0.2	33*	0.7	38	4.8	4.8	1.7	0.6	0.1		
3	0	0.3	7.1	0.7	25	4.6	4.3	1.5	0.6	0		
4	0	0.5	2.0	0.7	17	3.9	4.0	1.4	0.6	0		
5	0	0.3	0.9	0.6	13	4.3	3.6	1.3	0.6	0		
6	0	0.5	0.6	0.6	11	4.2	3.3	1.4	0.6	0		
7	0	0.4	0.7	0.8	9.1	3.6	3.4	1.3	0.5	0		
8	0	0.3	0.6	0.8	8.4	7.7	3.0	1.2*	0.5	0	*	
9	0	0.3	0.6	1.0	20	7.5	3.1	1.2	0.5	0		
10	0	0.4	1.0	1.0	17	4.9	2.9	1.2	0.5	0		
11	0	0.5	1.0	0.9	74	4.1	2.4	1.2	0.3	0		*
12	0	0.9	0.8	0.9	31	3.6	2.5	1.2	0.4	0	N	N
13	0.2	1.4	0.8	0.9	21	3.6	2.8	1.1	0.4	0	O	O
14	0.3	0.4*	0.8	0.8	16	28*	2.6	1.0	0.4	0		
15	0.2	0.3	20	0.8	34	41	2.4	1.0	0.4	0		
16	0.2	0.3	49	0.7*	20	37	2.3	0.9	0.3	0	P	P
17	0.1	0.3	30	0.6	15	58	2.2	0.9	0.3	0	L	L
18	0.1	0.3	10	0.6	12	23	1.8	0.8	0.3	0	O	O
19	0.2	0.3	5.1	0.7	10	18	2.0	0.8	0.4	0	W	W
20	0.3	0.3	3.2	0.7	8.7	14	1.9	0.8	0.2	0		
21	0.3	0.4	2.3	0.7	7.9	12	3.1	0.8	0.2	0		
22	0.3	0.5	1.5	0.7	7.4	10	5.3	0.8	0.2	0		
23	0.3	0.5	1.2	1.0	6.4	9.0	5.9	0.7	0.1	0		
24	0.2	0.8	1.1	0.9	5.7	8.7	6.0	0.7	0.2	0		
25	0.2	2.1	1.1	14	5.5	7.8	4.6	0.7	0.2	0		
26	0.2	4.0	0.8	80	5.4	8.5	2.9	0.7	0.2	0		
27	0.3	0.4	0.7	20	4.8	8.2	2.6	0.7	0.1	0		
28	0.2	0.3	0.9	9.6	4.6	6.7	2.2	0.6	0.1	0		
29	0.2	0.3	0.8	96		6.2	2.3	0.6	0.1	0		
30	0.2	5.7	0.7	123		6.0	2.4	0.6	0.3	0		
31	0.2		0.7	336 E		5.1		0.7		0		
Mean	0.1	0.8	12.8	22.5	17.7	11.9	3.3	1.0	0.4	0	0	0
Max. Mean	0.3	5.7	217	336 E	74	58	6.0	2.1	0.7	0.2	0	0
Min. Mean	0	0.2	0.6	0.6	4.6	3.6	1.8	0.6	0.1	0	0	0
Ac-Ft.	8	46	785	1383	982	732	193	63	21	1	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 4214

* Discharge measurement or observation of no flow made on this day.

TABLE 119

DAILY MEAN DISCHARGE
BEAR CREEK NEAR RUMSEY

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.2	563*	4.6	128 E	16	15	7.3	3.2	0.9	0.6	0.7
2	1.3	1.4	117	4.3	206 E	16	15	7.2	3.3	0.8	0.7	0.7
3	1.3	1.8	36	4.3	114 E	16	14	6.9	3.0	0.8	0.7	0.5
4	1.2	2.2	16	4.1	61 E	16	14	7.0	2.6	0.7	0.6	0.5
5	1.3	1.9	9.6	4.4	45 E	16	13	6.4*	2.2	0.7	0.5	0.5
6	1.8	1.8	6.6	4.1	38 *E	16	12*	6.0	2.0	0.8*	0.5	0.7
7	1.9	2.0	5.4	4.4	36	15*	12	6.4	2.0*	0.9	0.6	0.8
8	1.4	1.8	4.7	4.4	31	15	12	6.0	2.0	0.9	0.7	0.9
9	1.2	1.6	4.3	4.5	78	20	12	5.6	1.9	0.8	0.8	1.0
10	1.0	1.6	4.1	4.6	76	16	12	6.6	1.8	0.8	0.8	1.0
11	1.1	1.9	4.4	4.2*	162	14	11	6.5	1.7	0.7	0.6	1.0
12	1.3	3.2	3.6	4.0	91	14	11	6.2	1.8	0.6	0.6	0.9
13	1.2	7.5	2.9	4.2	55	14	11	5.5	2.0	0.5	0.6	0.9
14	1.3	8.5*	2.6	4.0	47	18	9.9	5.6	1.7	0.5	0.5	0.9
15	1.2	3.8	2.5	4.4	47	50	9.5	5.3	1.6	0.5	0.5	1.0
16	1.1	2.6	3.6	4.2	42	34	9.4	5.2	1.6	0.5	0.5	1.4
17	1.0	2.3	25	4.4	35	77	9.1	5.5	1.5	0.5	0.5	2.1
18	1.1	2.3	38	4.5	31	39	8.7	5.2*	1.2	0.5	0.4	1.8
19	1.3	2.6	16	4.6	28	26	8.3	5.0	1.1	0.5	0.6	1.3
20	1.4	2.2	11	4.5	27	23	8.5	4.8	1.1	0.4	0.9	1.1
21	1.4	2.1	8.9	4.5	25	20	9.2	5.0	1.1	0.3	1.0	1.4
22	1.5	2.3	7.8	4.4	24	19	13	4.9	1.0	0.5	0.7	1.3
23	1.5	2.3	7.1	5.4	22	18	16	4.7	0.9	0.6	0.6	1.3
24	1.5	2.4	6.5	5.7	21	19	12	4.1	0.9	0.5	0.6	1.3
25	1.5	3.8	6.0	7.0	20	19	11	3.8	0.9	0.5	0.6	1.2
26	1.5*	14	5.6	172 E	19	18	9.3	3.3	0.8	0.5	0.6	1.1
27	1.4	8.8	5.2	72 E	18	20	8.7	3.0	0.8	0.5	0.7	1.1
28	1.4	5.3	5.0	27 E	18	19	8.2	2.7	0.6	0.5	0.9	1.1
29	1.2	4.2	4.8	125 E		17	7.3	2.6	0.7	0.6	0.9	1.1
30	1.3	5.9	4.5	167 E		16	7.2	2.6	0.9	0.6	0.8	1.0
31	1.2		4.7	345 E		16		2.6		0.7	0.7	
Mean	1.3	3.5	30.4	33.0	55.2	21.7	11.0	5.1	1.6	0.6	0.7	1.1
Max. Mean	1.9	14	563	345 E	206 E	77	16	7.3	3.3	0.9	1.0	2.1
Min. Mean	1.0	1.2	2.5	4.0	18	14	7.2	2.6	0.6	0.3	0.4	0.5
Ac-Ft.	82	209	1869	2027	3064	1333	653	316	95	38	40	63

E - Estimated NR - No Record

Total Discharge in Acre-Feet 9789

* Discharge measurement made on this day.

TABLE 120

DAILY MEAN DISCHARGE
CACHE CREEK ABOVE RUMSEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	4.6	3400 E	68	1650	201	277	370	336	499	434	232
2	109	4.4	1210	68	1520	193	262	369	327	457	434	233
3	110	4.1	482	67	1500 E	192	245	366	311	462	434	231
4	100	5.5	244	66	960 E	191	233	350	293	466	422 *	222
5	88	5.9	161	64	620 E	176	210	342 *	289	469	363	223
6	85 *	5.8	122	62	500 *E	182	197 *	340	297	471	332	246
7	75	6.1	98	60	430 E	189 *	192	341	330	464	360 E	253 *
8	70	6.3	83	57	370 E	181	176	338	336	464	450 E	249
9	67	5.8	78	55	430 E	305	166	341	320	464	480 E	206
10	64	5.4	72	55	1050 E	284	160	374	288	464	470 E	166
11	62	5.3	73	56 *	950 E	256	151	398	296	462	430 E	166
12	53	7.0	72	54	1700 E	247	140	511	357	467 *	370 E	166
13	45	19	59 *	55	1000 E	237	140	401	399	468	370 E	164
14	43	42	50	53	820 E	244	272	358	432	479	380 E	160
15	37	25 *	51	54	770 E	907	290	342	474	527	400 E	155
16	24	17	70 E	52	780 E	648	290	359	470	526	400 E	151
17	23	14	600 E	53	610 E	1000 E	290	381	463	572	370 E	148
18	23	12	1200 E	51	530 E	940 E	279	381	469	564	350 E	145
19	23	9.8	560 E	50	460 E	720 E	281	375	510	535	334	140
20	22	9.6	350 E	50	399	626	284	377	538 *	506	328	136
21	23	9.0	240 E	50	363	532	369	373	537	484	311	133
22	14	7.7	180 E	49	325	472	456	361	529	466	314	128
23	8.4	7.7	150 E	50	301	444	492	359	530	457	349	125
24	6.4	7.5	130 E	51	274	406	465	379	536	462	349	122
25	6.4	9.8	115 E	53	253	413	449	406	533	461	330	102
26	5.4*	148	100 E	657	240	390	437	409	527	461	315	83 *
27	4.8	124	92 E	465	232	424	416	420	521	457	314	81
28	4.2	72	86 E	227	207	398	397	409	516	434	312	75
29	3.3	48	78	480		354	386	380	514	434	307	68
30	4.1	42	75	1460		335	384	344	513	434	287	67
31	4.5		72	3420		306		319		434	251	
Mean	42.4	23.0	334	262	687	400	293	373	426	477	366	159
Max. Mean	110	148	3400 E	3420	1700	1000 E	492	511	538	572	480 E	253
Min. Mean	3.3	4.1	50	49	207	176	140	319	288	434	251	67
Ac-Ft.	2607	1369	20530	16090	38170	24580	17430	22960	25370	29300	22510	9473

E – Estimated NR – No Record

Total Discharge in Acre-Feet 230400

* Discharge measurement made on this day.

TABLE 121

DAILY MEAN DISCHARGE
POPE CREEK NEAR POPE VALLEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				7.3	264	21	37	11	2.7	0.2		
2				7.2	249	20	33	10	2.8	0.1		
3				6.6	156	20	30	9.6	3.0	0.1		
4				5.9	102	19	28	8.0	2.5	0.1		
5				5.7	76	21	25	7.6	2.2	0.1		
6				5.7	62	25	23*	7.2	2.2	0.1		
7				5.7	53	18	22	7.0	2.1	0.1		
8				5.7	47	28	19	6.9	1.9	0.1		
9				5.9	153	80	19	6.2	1.6	0.1		
10				5.9*	124	44	18	6.7	1.4	0.1		
11				6.1	410	37	16	7.1	1.3	0.1		
12				6.2	199	33	15	6.1	1.2	0.1	N	N*
13				6.2	131	29	15	5.9	1.1	0.1	0	0
14				5.8	120	76	15	5.5	1.0	0.1		
15				5.9	123	331	13	5.3	0.9	0.1		
16				6.1	100	141	12	4.8	0.9	0		
17				6.3	76	320	13	4.9	1.1	0	F	F
18				6.1	62	129	12	4.7	0.8	0	L	L
19				6.1	52	91	11	4.1	0.7	0	0	0
20			30	6.6	45	81	11	3.8	0.7	0	W	W
21			22	6.3	42	64	13	4.1	0.6	0		
22			19	6.6	36	55	30	4.1	0.5	0		
23			17	8.2	33	52	56	3.6	0.4	0		
24			14	9.6	29	52	27	3.5	0.4	0		
25			12	14	27	56	19	3.0	0.3	0		
26			11	318 *	25	93	16	2.6	0.3	0		
27			9.7*	100	23*	92	14	2.6	0.3	0		
28			8.0	55	22	68	14	2.4	0.3	0		
29			7.1	615 E		54	13	2.2	0.2	0		
30			7.2	338		47	13	2.1	0.2	0		
31			7.3	1380 E		40		2.4*		0		
Mean				95.9	102	72.2	20.1	5.3	1.2	0.1	0	0
Max. Mean				1380	410	331	56	11	3.0	0.2	0	0
Min. Mean				5.7	22	18	11	2.1	0.2	0	0	0
Ac-Ft.				5898	5635	4437	1194	327	71	3	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet

Recorder installed December 19, 1960.

* Discharge measurement or observation of no flow made on this day.

TABLE 122

DAILY MEAN DISCHARGE
PLEASANTS CREEK NEAR WINTERS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.5 E	0	10	0.5	0.6	*	*	*	*	
2			1.0 E	0	7.8	0.4	0.6					
3		*	0	0	3.8*	0.4	0.5					
4			0	0	2.1	0.5	0.4					
5			0	0	1.7	0.5	0.4					
6			0	0	1.4	0.7	0.4					
7			0*	0	0.9	0.5	0.4					
8			0	0	0.9	0.4	0.4					
9			0	0	1.3	0.7	0.4					
10			0	0*	1.2	0.7	0.3					
11			0	0	4.9	0.5	0.3					
12	N	N	0	0	2.5	0.5	0.3	N	N	N	N	N
13	O	O	0	0	1.5	0.5	0.2	O	O	O	O	O*
14	*		0	0	1.3	0.6	0.2					
15			0	0	1.2	3.7	0.1					
16	F	F	0	0	1.4	1.8	0.1	F	F	F	F	F
17	L	L	0	0	1.0	2.9	0	L	L	L	L	L
18	O	O	0	0	0.9	1.9	0.1	O	O	O	O*	O
19	W	W	0	0	0.8	1.2	0	W	W	W	W	W
20			0*	0	0.8	1.2	0					
21			0	0	0.7	1.2	0					
22			0	0	0.7	0.9	0.6		*			
23			0	0	0.5	0.8	0.8					
24			0	0	0.4	0.8	0.5					
25			0	0	0.4	0.8	0.4	*				
26			0	52*	0.4	0.8	0.3					
27			0	1.5	0.4	0.7	0.2					
28			0	0.3	0.5	0.6	0.1					
29			0	41		0.6	0.1					
30			0	16		0.6	0					
31			0	63		0.6*						
Mean	0	0	0	5.6	1.8	0.9	0.3	0	0	0	0	0
Max. Mean	0	0	1.0	63	10	3.7	0.8	0	0	0	0	0
Min. Mean	0	0	0	0	0.4	0.4	0	0	0	0	0	0
Ac.-Ft.	0	0	3	345	102	57	17	0	0	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 524

* Discharge measurement or observation of no flow made on this day.

TABLE 123

DAILY MEAN DISCHARGE
PUTAH CREEK BELOW WINTERS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	43		0	90	57	33	25	12*	30*	3.1	
2	88	65		0	30	53	33	23	9.9	31	0.1	
3	6	95		0	23	55	31	24	10	29	0	
4	0	29		0	17	55	31	22	9.5	3.4	0	
5	0	0.1		0	17	58	32	23	9.1	0	0	
6	0	0		0	29	54	32	23	13	0	0	
7	0	0	*	0	51	52	33	24	14	0	0	
8	0	0		0	51	54	32	23	15	0	0	
9	0	0		0	57	57	33	23	14	0	6.9	
10	0	0		0 *	54	56	35	23	12	0	22	
11	0	0		0	58	57	34	22	13	0	19	
12	0	0	N	0	70	55	35	22	14	0	18	N
13	0	0	0	0	57	56	33	22	16	0	23	0
14	0*	0		0	57	58	32	22	21	0	21	
15	0	0		0	57	55	34	24	25	0	9.7	
16	0	0	F	0	57	48	36	21	24	0	8.4	F
17	0	1.6	L	0	56	31	36	20	24	0	9.1	L
18	0	9.3	O	0	56	29	35	21	26	0	8.8*	O
19	0	11	W	10	58	30	34	21	29	0	9.2	W
20	0	13	*	26	58	30	34	19	40	3.2	9.4	
21	6.2	9.6		29	56	32	35	20	42	9.4	12	*
22	9.1	0.1		31	56	30	39	19	40	9.2	0	
23	10	0		33	48	33	38	20	42	9.9	0	
24	11	0		7.8	52	33	38	19	42	11	0	
25	11	0		0.4	55	31	35	17	42	12	0	
26	10	0		34	56	34	31	17	42	12	0	
27	10	0		18	59*	32	29*	19	42	13	0	
28	10*	0		14	61	31	28	18	42	14	0	
29	11	0		33		33	29	19	42	13	0	
30	12	0		78		33	26	18	40	14	0	
31	17			99 *		33		15		14	0	
Mean	9.9	9.2	0	13.3	51.6	43.7	33.2	20.9	25.6	7.4	5.9	0
Max. Mean	96	95	0	99	90	58	39	25	42	31	23	0
Min. Mean	0	0	0	0	17	29	26	15	9.1	3.2	0	0
Ac.-Ft.	610	549	0	820	2868	2688	1978	1285	1520	452	360	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 13130

* Discharge measurement or observation of no flow made on this day.

TABLE 124

DAILY MEAN DISCHARGE
PUTAH CREEK ABOVE DAVIS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	18		0	107	54	33	29	9.8*	24	3.7	*
2	52	29		0	31	54	33	28	7.7	21	0.1	
3	14	45		0	25	53	33	28	6.2	21	0	
4	1.1	26		0	17	51	34	27	5.7	8.1	0	
5	0	1.7		0	17	53	32	26	5.6	0.1	0	
6	0	0		0	24	52	33	26	6.5	0	0	
7	0	0	*	0	45	51	31	26	9.5	0	0	
8	0	0		0	48	51	32	26	10	0	0	
9	0	0		0	52	51	33	26	11	0	0	
10	0	0		0*	52	53	35	26	9.8	0	0	
11	0	0		0	51	52	32	23	9.4	0	2.9	
12	0	0	N	0	66	52	34	21	11	0	10	N
13	0	0	O	0	53	53	33	21	11	0	13	O
14	0*	0		0	52	55	32	19	16	0	15	
15	0	0		0	53	54	32	22	20	0	9.7	
16	0	0	F	0	53	49	33	18	19	0	1.0	F
17	0	0	L	0	52	36	33	17	18	0	0.9	L
18	0	0	O	0	51	33	31	16	18	0	1.3*	O
19	0	0	W	0	51	32	29	16	19	0	1.3	W
20	0	0	*	0	54	33	30	15	24	0	1.9	
21	0	0		25	51	32	30	16	26	0	2.8	*
22	0	0		30	53	33	33	16	26	0	3.5	
23	0	0		32	51	33	31	15	27	0	0.2	
24	0	0		16	53	34	33	14	29	0	0	
25	0	0		2.4	54	33	30	13	32	0.4	0	
26	0	0		19	54	33	30	13	30	3.8	0	
27	0.8	0		26	55*	34	30*	14	31	5.5	0	
28	2.7*	0		15	55	33	29	14	32	6.3	0	
29	3.2	0		21		34	30	15	35	6.6	0	
30	3.1	0		87 E		33	29	14	34	7.4	0	
31	4.6			106*		33*		11		8.8	0	
Mean	4.3	4.0	0	12.2	49.3	43.1	31.8	19.7	18.3	3.6	2.2	0
Max. Mean	53	45	0	106	107	55	35	29	35	24	15	0
Min. Mean	0	0	0	0	17	32	29	11	5.6	0.1	0	0
Ac.-Ft.	267	237	0	753	2737	2652	1890	1212	1089	224	133	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 11190

* Discharge measurement or observation of no flow made on this day.

TABLE 125

DAILY MEAN DISCHARGE
SOUTH FORK PUTAH CREEK NEAR DAVIS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	0		0	103	42	18	20	1.3*	12*	0*	*
2	30	0		0	32	41	17	15	0.2	14	0	
3	13	11		0	17	40	17	14	0.5	9.6	0	
4	0	21		0	6.7	41	17	13	0	3.8	0	
5	0	0.2		0	4.0	41	16	9	0	0.2	0	
6	0	0		0	6.1	43*	18	8.2	0	0	0	
7	0	0	*	0	28	40	22	20	0	0	0	
8	0	0		0	36	41	21	27	0.2	0	0	
9	0	0		0	39	43	21	17	5.8	0	0	
10	1.5	0		0*	39	42	24	23	7.4	1.1	0	
11	2.9	0		0	36	42	21	28	1.0	1.0*	0	
12	2.1	0	N	0	53	42	18	15	0.1	0.9	0	N
13	0.4	0	O	0	41	41	20	15	0.9	0.1	0	O
14	*	0		0	40	43	20	8	0.2	0	0	
15		0		0	39	44	18	3.6	2.6	0	0	
16	0.6 E	0*	F	0	39	37	20	1.8	8.6	0	0	F
17		0	L	0	38	31	18	2.1	4.6	0	0	L
18		0	O	0	38	21	18	2.9	4.4	0	0	O
19	0 E	0	W	0	38	19	21	3.8	5	0	0	W
20	0 E	0	*	0	41	20	21	5.6	10	0	0.2	
21	0 E	0		0	39	21	19	15	20	0	0.7	*
22	0 E	0		0	40	21	20	13	14	0	0	
23	0 E	0		7.1	36	21	22	8.2	17	0	0	
24	0 E	0		11	38	25	24	4.3	15	0	0	
25	0 E	0		0.9	39	22	24	3.2	15	0.6	0	
26	0 E	0		0.1	40	21	22	8	24	0	0	
27	0 E	0		13	41	21	17*	7.7	19	0	0	
28	0 *E	0		1.2	43	20	15	9.3	18	0	0	
29	0	0		1.8		21	19	5.9	16	0	0	
30	0	0		58		19	19	3.8	17	0	0	
31	0			38		18		0.6		0	0	
Mean	2.7	1.1	0	4.2	36.8	31.7	19.6	10.7	7.6	1.4	0	0
Max. Mean	31	21	0	58	103	44	24	28	24	14	0.7	0
Min. Mean	0	0	0	0	4.0	18	15	0.6	0	0	0	0
Ac.-Ft	166	64	0	260	2043	1952	1164	657	452	86	2	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 6846

* Discharge measurement or observation of no flow made on this day.

TABLE 126

DAILY MEAN INFLOW
MILLERTON LAKE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	[illegible]	511	679	384	461	542	1170	1670	1731	619	693	496
2	473	402	1901	396	786	597	1491	1705	1672	673	574	264
3	578	649	1541	427	478	652	1693	1689	1661	771	827	267
4	674	319	869	414	507	646	1699	1676	1736	1051	1000	555
5	841	292	706	403	469	669	1710	1703	1614	975	990	961
6	1105	505	768	471	472	422	1711	1777	1725	611	239	976
7	903	528	744	449	443	373	1716	1664	1751	765	1180	640
8	353	291	833	346	495	495	1707	1670	1719	492	1253	276
9	328	255	850	473	583	654	1699	1723	1712	555	1112	264
10	578	402	724	474	585	550	1678	1704	1704	462	821	255
11	518	339	457	442	832	524	1730	1671	1708	500	780	850
12	301	1020	585	430	1215	422	1722	1711	1764	503	646	935
13	497	769	721	505	1012	666	1699	1694	1776	667	630	899
14	670	656	799	489	773	608	1669	1712	1703	282	826	990
15	410	521	863	426	680	1006	1762	1704	1717	530	720	869
16	283	425	762	491	580	962	1649	1703	1793	485	787	881
17	688	566	370	251	592	802	1723	1757	1722	374	910	876
18	560	495	340	410	732	775	1667	1669	1683	961	888	1038
19	690	384	534	410	487	799	1736	1744	1700	1023	412	1215
20	810	371	796	242	765	696	1696	1652	1738	1226	473	1068
21	614	516	776	324	937	963	1661	1708	1684	641	971	1096
22	415	430	423	297	572	975	1572	1710	1737	284	1100	956
23	272	418	560	371	536	1076	1708	1697	1658	396	771	988
24	630	392	520	443	667	1707	1580	1725	1613	778	933	b 908
25	680	437	510	313	355	1037	1469	1682	1458	927	934	1160
26	719	666	278	914	512	934	1482	1645	1366	531	252	819
27	610	538	588	785	572	1120	1494	1757	1184	906	512	743
28	382	509	513	463	485	950	1734	1685	972	697	938	979
29	429	504	499	185		927	1686	1711	956	193	1026	838
30	104	497	514	344		944	a 1766	1679	700	361	985	587
31	204		455	606		979		1705		843	381	
Mean	538	487	693	432	628	789	1649	1700	1589	648	792	786
Max. Mean	1105	1020	1901	914	1215	1707	1766	1777	1793	1226	1253	1215
Min. Mean	104	255	278	185	355	373	1170	1645	700	193	239	255
Ac.-Ft.	33068	28973	42601	26535	34875	48540	97994	104533	94526	39832	48722	46982

E - Estimated NR - No Record

Total Discharge in Acre-Feet 647181

a 23 hour day
b 25 hour day

TABLE 127

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT WHITEHOUSE

In second-feet

Date	1960			1961								
	Oct. ·	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	15	0	24	32	10	8	20	6			
2	9	14	0	22	29	17	5	20	8			
3	11	14	0	19	32	27	2	18	10			
4	14	16	0	14	29	25	5	15	7			
5	18	24	0	12	27	24	7	18	4			
6	14	34	25 E	11	24	21	7	22	3			
7	17	34	40 E	24	22	28 +	10	28	NR			
8	19	30	68 — E	45	21	28	25	30 +	NR			
9	20	29	73 E	95	21	29	25	35	NR			
10	21	19	75 E	169	19	28	23	35 +	NR			
11	18	13	80 E	124	18	28	23	32	NR			
12	16	9	175 E	118	17	28	21	27	NR			
13	14	9	250 E	117	16	27	19	28	NR			
14	14	12	250 E	115	15	29	21 +	28	NR	N	N	N
15	15	15	250 E	113	14	30 +	23	32 +	NR	O	O	O
16	17	15	175 E	113	13	33	25	35	NR	R	R	R
17	15	14	90 E	112	13	35	23	35	NR	E	E	E
18	15	9	90 E	113	12	30	24	30	NR	C	C	C
19	14	6	85 E	123	9	28	23 +	29	NR	O	O	O
20	13	3	81 E	134	5	28	19	28	NR	R D	R D	R D
21	14	1	75 E	135	3	27	17	31	NR			
22	14	0	69 E	135	4	23	17	33	NR			
23	14	0	65 E	114	4	21	20	30	NR			
24	15	0	60 E	100	5	21	26 +	28 +	NR			
25	22	0	56 E	97	7	21	33	25	NR			
26	19	0	53 E	81	8	22	36 +	21	NR			
27	14	0	49 E	74	9	26	33	17	NR			
28	13	0	42 E	67	10	34	30	11	NR			
29	12	0	34 E	53		26 +	25	9	NR			
30	14	0	28 E	46		21	a 20	9	NR			
31	14		24 E	38		15		8				
Mean	15	11	76	82	16	26	20	25				
Max. Mean	22	34	250	169	32	35	36	35				
Min. Mean	9	0	0	11	3	10	2	8				
Ac.-Ft.	932	664	6850	5072	869	1567	1179	1521				

E - Estimated NR - No Record

Total Discharge in Acre-Feet

a - Adjusted for 23 hour day April 30
b - Adjusted for 25 hour day Sept. 24
— - U. S. B. R. measurement date
· - Hydrography measurement date
+ - L. W. S. measurement date

NOTE: All river flow diverted into L. W. S. by sand dam and measured at L. W. S. gaging station: Feb. 21 a.m. to June 8.

TABLE 128

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR MENDOTA

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	307	35	80	3	2	181	248	288	332	432	442	330
2	310	21	78	3	2	196	261	295	302	435	432	322
3	261	20	78	3	0	204	264	298	317	425	420	310
4	186	18	77	3	0	204	259	295	325	402	425	312
5	159	23	76	2	0	204	257	293	348	390	428	308
6	126	22	76	2	0	204	252	295	380	395	432	305
7	90	22	74	2	0	181	249	298	408	420	425	298
8	71	34	60	2	0	158	247	300	435	451	400	293
9	71	62	44	2	0	143	249	300	438	445	398	273
10	72	64	39	3	0	129	258	298	432	440	398	257
11	78	64	35	3	0	139	290	300	425	438	398	231
12	85	64	27	3	0	158	293	312	425	430	408	209
13	80	64	27	3	0	175	295	315	425	442	418	224
14	76	70	51	3	0	173	320	322	424	466	415	247
15	76	86	80	3	2	177	332	300	442	492	402	231
16	78	88	99	3	128	194	332	281	440	492	410	220
17	80	86	99	3	177	196	345	281	442	492	440	245
18	82	86	99	3	202	196	358	300	451	490	440	261
19	82	86	99	4	209	189	339	328	451	478	442	242
20	78	85	99	4	213	189	293	328	454	448	454	206
21	76	85	88	4	233	189	285	328	442	435	442	172
22	74	88	45	4	240	189	271	328	438	428	415	172
23	74	102	4	4	209	183	276	338	432	428	410	183
24	72	99	4	237	156	141	285	348	445	428	405	198
25	83	99	4	413	152	118	315	362	460	430	418	198
26	97	99	4	293	156	118	335	398	463	425	412	211
27	97	99	4	108	154	118	342	402	463	430	388	226
28	101	99	4	27	162	120	341	390	460	432	388	226
29	113	99	4	15		134	288	372	454	454	368	238
30	111	94	3	8		175	288	352	435	454	365	264
31	76		3	4		215		338		445	340	
Mean	110	69	50	38	85	171	292	322	420	442	412	247
Max. Mean	310	102	99	413	240	215	358	402	463	492	454	330
Min. Mean	71	18	3	2	0	118	247	281	302	390	340	172
Ac-Ft.	6790	4090	3100	2330	4750	10490	17390	19800	24970	27160	25350	14700

E - Estimated NR - No Record

Total Discharge in Acre-Feet 160920

TABLE 129

DAILY MEAN DISCHARGE
PANOCHE DRAIN NEAR DOS PALOS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	6.6	2.9	2.0	5.4	17	11	17	12 *	20	23	NR
2	3.9	6.6	2.7	1.8	12	18	9.8	18	14	16	23	NR
3	5.9	6.6	2.6	1.6	13	16	4.3	16	14	20	27	NR
4	6.3	6.8 *	2.6	1.6	7.8 *	16	6.9	11	16	18	28	NR
5	8.2	15	2.5	2.1	6.3	16	6.8	12	15	17	24	NR
6	10	19	2.4	1.7	7.6	19	6.3	9.7	11	18	28	NR
7	7.9 *	9.0	2.6	1.5	8.8	21	6.7	13	12	17	33	NR
8	7.2	15	3.1	1.5	7.6	25	6.4	17	15	18	26	NR
9	6.9	9.1	2.9	1.5	8.7	24	7.2	20	22	17	27	NR
10	8.6	8.6	2.7	1.5	9.1	20	12	22	19	17	21	NR
11	7.6	6.8	2.7	1.5 *	13	19	8.1	22	15	21	17	NR
12	7.2	7.2	2.4	1.5	7.1	20	8.2	18	13	19	24	NR
13	8.0	8.5	2.5	1.5	5.7	19	7.2	15	12	16	18	NR
14	4.4	7.3	2.4	1.5	6.9	19	14	14	14	14	18	14
15	4.5	3.8	2.3	1.6	6.9	13	15	14	19 *	14	16	14
16	6.7	3.7	2.5	1.7	7.7 *	15	12	14	13	16	15	12
17	5.7	3.6	3.4	1.8	7.2	16 *	11	15	14	19 *	16 *	15
18	3.0	3.3 *	2.8	1.8	8.8	17	14	16	15	20	15	17
19	2.7	2.9	2.3	1.8	10	17	12 *	18	12	18	16	13
20	3.1	2.9	2.2	2.1	7.3	17	18	18	18	15	17	14
21	6.7	3.0	2.7	2.1	8.3	13	21	18	18	16	- 16	14
22	6.3	3.4	2.3 *	2.2	7.7	12	23	18	17	16	16	12
23	5.7	3.1	2.0	2.5	7.5	13	28	16	17	18	16	13
24	3.6	3.0	1.9	2.3	9.9	13	28	20	17	20	19	12
25	4.3	3.1	2.3	3.3 *	11	14	22	23	16	19	20	8.9
26	3.2	3.1	2.1	18	11	13	19	20	16	20	21	8.1
27	4.0	2.8	1.8	10	13	14	17	16	16	20	21	10
28	4.0	2.7	1.9	5.5	17	15	20	14	19	20	21	11 *
29	3.0	2.7	2.1	6.2		15	19	12	15	23	20	11
30	3.0	2.8	1.6	5.5		14	18	11	14	21	21	9.0
31	2.2		1.6	7.2		12		7.5		19	28	
Mean	5.4	5.9	2.4	3.2	9.0	16.5	13.7	16.0	15.3	18.1	21.0	
Max. Mean	10	19	3.4	18	17	25	28	23	22	23	33	
Min. Mean	2.2	2.6	1.6	1.5	5.4	12	4.3	7.5	11	14	19	
Ac-Ft.	333	353	148	195	500	1016	817	982	912	1115	1291	

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement or observation of no flow made on this day.

TABLE 130

DAILY MEAN DISCHARGE
BIG CREEK DIVERSION NEAR FISH CAMP

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.5	15	4.0 E	7.8	8.3	19	20	14	2.8	1.0	0.6
2	1.2	1.5	19	4.7 E	9.4	8.6	23	19	14	2.7	0.9 •	0.6
3	1.2 •	2.5 •	12	5.3 •E	8.6	8.8	26	19 •	12	4.6	0.8	0.6
4	1.2	3.2	6.4 E	4.7 E	7.3	8.2	28	16	11	3.7	0.8	0.6
5	1.2	2.9	4.7 E	3.8 E	7.1	7.9	28	15	10	3.2	0.8	0.5
6	6.7	5.5	5.0 E	3.8 E	7.4	7.3	27	18	9.5	2.9	0.8	0.7
7	2.6	3.5	5.2 E	4.6 E	6.6	8.7	26	21	9.0	2.6	1.0	0.7
8	1.9	2.9	5.3 E	4.7 E	6.3	9.5	23	22	8.5	2.0	0.8	0.5
9	1.9	2.7	6.0 •E	4.4 E	7.9	9.5	23	20	8.1	2.2	0.9	0.6
10	2.1	2.5	5.5 E	4.5 E	10	9.0	21	18	7.6	2.2	0.7	0.6
11	1.9	2.5	4.9 E	4.3 E	19	9.0	21	18	6.9	2.2	1.2	0.6
12	1.9	10	4.3 E	3.9 E	15	9.5	22	17	6.6	2.1	1.0	0.5
13	1.9	7.0 E	3.6 E	4.0 E	11	10	22	16	6.4	2.1	0.8	0.6
14	1.9	9.4 E	3.3 E	4.2 E	10 •	11	21	16	5.7	1.9	0.8	0.5
15	1.8	8.4	3.4 E	4.4 E	10	11	21	16	5.6	1.6	0.7	0.6
16	1.7	7.2	3.6 E	4.9 E	10	11	22	16	5.2	1.7	0.7	1.1
17	1.7	4.7	3.9 E	5.2 E	9.4 E	11	23	16	5.1	1.9	0.7	1.8
18	1.7	3.8 E	4.0 E	5.2 E	8.2 E	11	21 •	15	4.6	1.7	0.6	1.2
19	1.7	3.3 E	4.2 E	5.2 E	7.2 E	11	19	16	3.9	1.7	0.8	1.1
20	1.6	3.3 E	4.4 E	5.0 E	8.1 E	14 •	16	15	3.5	1.4	0.9	0.9
21	1.5	3.4 E	4.7 E	4.7 E	8.8	15	15	14	3.3	1.4	0.7	0.9
22	1.5	3.5 E	5.0 E	4.6	8.4	15	17	14	3.1	1.4	0.6	0.9
23	1.5	3.6 E	5.2 E	4.6 E	8.4 E	22	16	13	3.2	1.6	0.6	1.0
24	1.5	3.8 E	5.2 E	5.0	8.0	17	16	12	3.1	1.1	0.7	1.1
25	1.5	3.9 E	5.2 E	5.4	8.0	16	17	12	3.0	1.1	0.8	1.0
26	1.5	4.0 E	5.0 E	16	7.5	12	19	11	2.7	1.1	0.8	0.8
27	1.6	4.0 E	4.6 E	9.3	7.4	13	20	11	2.8	0.9	0.9	0.8 •
28	1.7	4.0 •E	4.0 E	7.8 E	7.6	12	20	11	2.7	0.9	1.0	0.8
29	1.7	3.9 E	3.5 E	6.1		14	20	12	2.5 •	0.8	1.0	1.3
30	1.7	3.6 E	3.3 E	7.5 •		17	20	11	2.8	0.9	0.9	1.1
31	1.7		3.5 E	8.9		18		14 •		1.0	0.6	
Mean	1.8	4.2	5.6	5.5	8.9	11.8	21.1	15.6	6.2	1.9	0.8	0.8
Max. Mean	6.7	10	19	16	19	22	28	22	14	4.6	1.2	1.8
Min. Mean	1.1	1.5	3.3	3.8	6.3	7.3	15	11	2.5	0.8	0.6	0.5
Ac-Ft.	112	250	343	339	497	725	1254	960	370	118	50	49

E – Estimated NR – No Record

Total Discharge in Acre-Feet 5067

• Discharge measurement or observation of no flow made on this day.

TABLE 131

DAILY MEAN DISCHARGE
MIAMI CREEK NEAR OAKHURST

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.7	17	1.6 E	4.0	2.9	5.0	2.4	2.0	0.1		
2	0.3	0.6	18	1.6 E	4.3	2.8	4.7	2.2	2.0	0.2		
3	0.3 •	0.9 •	5.9	1.5 •E	4.4	3.1	4.1	2.2 •	1.8	0.2		
4	0.3	1.0	3.9	1.6 E	3.7	3.1	3.7	2.1	1.2	0.3		
5	0.3	1.1	3.2	1.6 E	3.3	3.2	3.4	2.0	0.7	0.3		
6	1.3	2.9	2.9	1.6 E	3.3	3.9	3.2	2.7	0.5	0.2		
7	1.0	3.2	2.4 E	1.5 E	3.1	3.5	3.1	3.8	0.4	0.2		
8	0.8	1.9	2.5 E	1.5 E	2.9	3.7	2.9	3.3	0.5	0.1		
9	0.8	1.3	2.3 •E	1.6	3.0	4.2	2.9	2.5	0.9	0.1		
10	0.8	1.1	2.3	1.7	3.2	4.1	2.8	2.4	1.3	0.8		
11	0.8	1.1	2.2	1.7	7.3	4.4	2.7	2.4	1.4	0.2		
12	0.8	5.2	2.1	1.6	7.0	4.0	2.8	1.9	0.9	0.2 E	N	N
13	0.8	6.0	1.9	1.7	4.5	3.7	3.2	1.9	0.8	0.1 E	O	O
14	0.8	5.0	1.9	1.7	4.2 •	3.5	3.2	1.8	0.7	0 E		
15	0.8	3.2	1.8	1.8	4.1	4.8 •	2.7	1.9	0.6	0		
16	0.8	2.4	2.0	1.7	4.1	4.6	2.6	1.8	0.6	0	F	F
17	0.8	2.1	2.1	1.8	3.8	5.4	2.4	1.7	0.6	0	L	L
18	0.8	2.1	2.1	1.7	3.5	4.9	2.3 •	1.7	0.5	0	O	O
19	0.7	2.1	1.9	1.7	3.4	4.6	2.2	1.9	0.5	0	W	W
20	0.7	2.0	1.9	1.7	3.3	4.9	2.3	2.0	0.5	0		
21	0.7	1.8	2.0	1.7	3.2	5.1	2.2	1.8	0.4	0.1		
22	0.7	1.7	2.0	1.8	3.2	4.6	3.2	1.6	0.4	0		
23	0.6	1.7	2.0	1.8	3.0	5.6	3.4	1.4	0.4	0.1		
24	0.7	1.7	2.0	1.7	2.9	6.1	3.2	1.5	0.4	0.2		
25	0.6	1.6	1.8	1.9	2.9	6.5	3.3	1.5	0.3	0.1		
26	0.6	2.4	1.8	8.0	2.8	5.2	3.8	1.5	0.4	0		
27	0.6	2.5	1.8	5.5	2.8	5.9	3.3	1.4	0.4	0		•
28	0.7	2.0 •	1.9	3.9	2.8	5.9	2.8	1.4	0.3	0		
29	0.6	1.9	1.8 E	3.5		5.2 •	2.7	1.5	0.7 •	0		
30	0.6	1.9	1.8 E	3.8 •		5.8	2.4	1.5	0.1	0	•	
31	0.6		1.6 E	3.9		5.6		1.7 •		0		
Mean	0.7	2.2	3.3	2.3	3.7	4.5	3.1	2.0	0.7	0.1		
Max. Mean	1.3	6.0	18	8.0	7.3	6.5	5.0	3.8	2.0	0.8		
Min. Mean	0.3	0.6	1.6	1.5	2.8	2.8	2.2	1.4	0.1	0		
Ac-Ft.	42	129	200	140	206	279	183	122	44	7		

E – Estimated NR – No Record

Total Discharge in Acre-Feet 1352

• - Discharge measurement or observation of no flow made on this day

TABLE 132

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR DOS PALOS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	14	32		0	0	7	5	0	0
2			0	16	29		0	7	12	0	9	4
3			0	16	26		0	12	12	8	12	4
4			0	16	24		0	12	12	12	6	0
5			0	17	20		8	12	12	4	0	0
6			0	24	19		12	8	12	0	0	0
7			0	18	17		12	0	9	0	0	9
8			0	14	16		12	0	0	8	0	8
9			0	14	14		8	4	0	4	0	0
10			0	13	13		0	5	7	0	0	0
11			0	13	12		0	7	12	0	0	0
12			0	12	11		0	8	12	5	0	0
13	N	N	0	12	9	N	0	5	7	12	0	0
14	O	O	0	11	7	O	0	0	0	10	8	0
15			0	11	0		0	5	5	0	12	0
16	F	F	0	10	0	F	0	12	11	0	7	0
17	L	L	0	9	0	L	5	12	0	0	0	0
18	O	O	0	11	0	O	12	12	0	8	0	0
19	W	W	0	26	0	W	12	12	9	12	0	0
20			0	29	0		12	12	12	12	0	0
21			0	18	0		4	4	12	12	0	0
22			0	11	1		0	0	12	4	0	0
23			0	454	1		0	0	12	0	0	0
24			0	582	0		7	0	3	0	7	0
25			0	313	0		12	0	0	0	12	0
26			0	291	0		5	0	0	0	12	0
27			0	264	0		0	0	0	0	4	0
28			0	126	0		0	0	3	0	0	0
29			0	65			0	0	9	0	0	0
30			0	47			0	0	12	0	4	0
31			7 E	37				0		0	0	
Mean	0	0	0	81	9	0	4	5	7	4	3	1
Max. Mean	0	0	7 E	582	32	0	12	12	12	12	12	9
Min. Mean	0	0	0	9	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	14 E	4990	498	0	240	296	424	230	184	50

E = Estimated NR = No Record

Total Discharge in Acre-Feet 6926

TABLE 133

DAILY MEAN DISCHARGE
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	5.8	0.4	1.0	1.1	2.6	0.7	0.4			
2		0	31	0.3	1.3	1.1	2.5	0.7	0.4			
3		0	9.2	0.3	2.1	1.1	2.3	0.6	0.3			
4		0	3.4	0.3	1.4	1.1	2.1	0.6	0.2			
5		0	2.2	0.3	1.1	1.2	1.5	0.5	0.1			
6		0	1.6	0.3	0.9	1.8	1.3	0.9	0.1			
7		0	1.1	0.3	0.9	2.5	1.2	2.2	0.1			
8		0	1.0	0.3	0.9	1.8	1.1	1.3	0.1			
9		0 *	1.0	0.3	0.8	1.5	1.1	0.7 *	0			
10	*	0	1.1	0.3	0.8	1.5	1.1 *	0.6	0		*	
11		0	1.1	0.2	2.3	1.4	0.9	0.5	0	*		
12	N	2.2	0.9	0.2	7.1	1.3	0.9	0.5	0	N	N	N *
13	O	3.2	0.8	0.2	3.3	1.2 *	1.3	0.5	0	O	O	O
14		9.5	0.6	0.2	2.3	1.0	1.3	0.5	0			
15		1.0	0.6	0.2	2.2	3.8	1.0	0.4	0			
16	F	0.3	0.6	0.2	4.8	7.8	0.8	0.3	0	F	F	F
17	L	0.2	0.5	0.2	3.6	9.7	0.7	0.3	0	L	L	L
18	O	0.1	0.6	0.1	2.3	7.4	0.6	0.3	0	O	O	O
19	W	0.1	0.5	0.2	1.9	4.5	0.6	0.5	0	W	W	W
20		0.1	0.5	0.2	1.7	3.6	0.6	1.3	0			
21		0.1	0.6	0.1	1.5	3.2	0.6	1.0	0			
22		0.1	0.6	0.1	1.4	2.2	1.6	0.8	0			
23		0.1 *	0.5	0.1	1.3	2.3	2.4	0.6	0			
24		0.1	0.5	0.1	1.3	2.2	1.8	0.4 *	0			
25		0.1	0.5	0.1	1.3	15	1.4	0.3	0			
26		3.4	0.6	3.7 *	1.2	6.1	1.2	0.3	0			
27		2.8	0.6	4.1	1.2	5.2	1.1	0.2	0			
28		1.2	0.5 *	1.6	1.1	6.0	0.9	0.2	0			
29		0.7	0.4	1.0		3.6	0.8	0.2	0			
30		0.6	0.4	1.0		3.1	0.7	0.2	0			
31			0.4	1.2		2.9		0.3				
Mean	0	0.9	2.2	0.6	1.9	3.5	1.3	0.6	0.1	0	0	0
Max. Mean	0	9.5	31	4.1	7.1	15	2.4	2.2	0.4	0	0	0
Min. Mean	0	0	0.4	0.1	0.8	1.0	0.6	0.2	0	0	0	0
Ac.-Ft	0	51	138	36	105	215	75	36	3	0	0	

E = Estimated NR = No Record

Total Discharge in Acre-Feet 659

* Discharge measurement or observation of no flow made on this day

TABLE 134

DAILY MEAN DISCHARGE
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	2.6	0.7	1.6	1.3	2.4	0.7	0.4			
2		0	10	0.7	2.0	1.4	2.3	0.8	0.5			
3		0	3.0	0.7	3.1	1.4	2.3	0.8	0.5			
4		0	1.5	0.6	2.0	1.4	2.2	0.7	0.4			
5		0	1.1	0.6	1.6	1.6	2.1	0.7	0.3			
6		0	0.8	0.6	1.5	2.5	1.9	1.2	0.2			
7		0	0.7	0.6	1.3	2.8	1.8	2.5	0.1			
8		0	0.8	0.6	1.2	1.9	1.8	1.4	0.1			
9		0	0.6	0.6	1.1	1.8	1.7	0.9 *	0.1			
10		0	0.7	0.6	1.3 *	1.6	1.6 *	0.8	0.1			
11		0	0.6	0.6	1.9	1.4	1.5	0.7	0			
12	N	0.1	0.6	0.6	3.9	1.3 *	1.7	0.6	0	N	N	N
13	O	0.2	0.6	0.6	1.9	1.1 *	2.6	0.5	0	O	O	O
14		0.2	0.5	0.6	1.4	0.9	1.9	0.5	0			
15		0.1	0.6	0.6	1.5	8.0	1.6	0.4	0			
16	F	0	0.6	0.6	3.5	6.4	1.3	0.4	0	F	F	F
17	L	0	0.6	0.6	2.3	11	1.3	0.4	0	L	L	L
18	O	0	0.6	0.6	1.7	6.6	1.2	0.3	0	O	O	O
19	W	0	0.6	0.6	1.5	3.8	1.0	0.7	0	W	W	W
20		0	0.6	0.6	1.5	3.0	1.0	1.6	0			
21		0	0.6	0.6	1.3	2.6	1.0	1.0	0			
22		0	0.6	0.6	1.3	2.2	2.9	0.7	0			
23		0 *	0.6	0.6	1.4	2.8	3.0	0.5	0			
24		0	0.6	0.6	1.3	3.7	2.4	0.4	0			
25		0	0.6	0.6	1.3	11	1.7	0.4 *	0			
26		1.7	0.6	7.0 *	1.2	5.2	1.4	0.3	0			
27		2.3	0.7	4.9	1.2	4.8	1.2	0.3	0			
28		0.8	0.7 *	2.0	1.3	4.6	1.0	0.3	0			
29		0.5	0.8	1.4		3.2	1.0	0.2	0			
30		0.4	0.8	1.8		2.9	0.9	0.2	0			
31			0.7	1.9		2.6		0.3				
Mean	0	0.2	1.1	1.1	1.7	3.4	1.7	0.7	0.1	0	0	0
Max. Mean	0	2.3	10	7.0	3.9	11	3.0	2.3	0.5	0	0	0
Min. Mean	0	0	0.5	0.6	1.1	0.9	0.9	0.2	0	0	0	0
Ac.-Ft.	0	12	69	68	95	212	103	42	5	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 606

* Discharge measurement or observation of no flow made on this day

TABLE 135

DAILY MEAN DISCHARGE
EAST FORK CHOWCHILLA RIVER NEAR AHWAHNEE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.6	53	3.0	7.6	5.9	12	5.0	3.0	0		
2	0	0.6	77	3.0	7.7	6.3	11	4.5	3.2	0		
3	0	1.0	26	2.8	11	6.3	11	4.4	3.0	0		
4	0	2.0	13	3.1	8.1	6.1	10	4.9	2.4	0.1		
5	0	2.6	9.0	3.1	7.2	5.7	9.7	4.2	2.0	0		
6	0	5.6	7.2	3.2	6.7	7.0	8.7	4.9	1.6	0		
7	0	5.1	6.5	3.2	7.0	9.1	7.8	13	1.6	0		
8	0	2.8	5.9	3.2	6.7	7.3	7.6	7.6	1.4	0		
9	0	2.3 *	5.5	3.5	6.1	7.5	6.5	5.9	1.3	0		
10	0	2.0	5.5	3.3 *	5.9	9.0	6.3	4.9	1.2	0	*	
11	0	2.1	5.1	3.1	25	7.2	5.3	4.7	1.0	0		
12	0	10	4.9	3.1	38	6.1	6.0	4.6	1.2	0	N	N *
13	0	31	4.5 *	2.8	16	5.9	8.5	4.5	1.0	0	O	O
14	0.1	42	4.2	2.6	12	5.9	7.1	4.1	0.8	0		
15	0.1	9.6	4.0	2.6	11	16	7.2	3.4	0.6	0		
16	0.1	5.4	4.0	2.6	15	18	5.7	3.0	0.5	0	F	F
17	0.2	3.8	3.8	2.7	12	24	5.5	3.4	0.3	0	L	L
18	0.2	3.1	3.5	2.8	10	19	5.1	2.9	0.2	0	O	O
19	0.2	3.0	3.4	2.8	8.7	12	4.8	3.6	0.1	0	W	W
20	0.2	2.7	3.4	3.0	8.2	10	4.7	5.3	0.1	0		
21	0.2	2.3	3.7	3.0	7.9	9.8	4.7	5.0	0.1	0		
22	0.3	2.0	3.5	2.8	7.4	8.9	9.3	4.2	0	0		
23	0.3	2.2	3.2	3.1	7.2	10 *	11	3.6	0	0		
24	0.3	1.8	3.2	3.1	7.1 *	12	10	3.3 *	0	0		
25	0.3	1.8	3.1	3.0	6.5	33	8.0 *	3.0	0	0		
26	0.3	22	2.8	27 *	6.3	19	7.6	2.8	0	0		
27	0.3	14	3.2	21	6.3	19	6.7	2.8	0	0		
28	0.4	6.7	3.4	9.8	5.9	22	6.1	2.9	0	0		
29	0.4	4.9	3.1	7.3		17	5.9	2.5	0	0		
30	0.5	4.0	2.8	8.6		15	5.4	2.1	0	0		
31	0.5		2.8	8.1		12		2.3		0		
Mean	0.2	6.6	9.2	5.0	10.2	12.0	7.5	4.3	0.9	0	0	0
Max. Mean	0.5	42	77	27	38	33	12	13	3.2	0.1	0	0
Min. Mean	0	0.6	2.8	2.6	5.9	5.7	4.7	2.1	0	0	0	0
Ac.-Ft.	10	395	564	310	564	738	447	264	53	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3345

* Discharge measurement or observation of no flow made on this day.

TABLE 136

DAILY MEAN DISCHARGE
STRIPED ROCK CREEK NEAR RAYMOND

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0 *	0.5	0.2	0.6	0.4	0.7	0.1	0.1			
2		0	0.8	0.2	1.4	0.5	0.7	0.1	0.1			
3		0	0.4	0.1	1.7	0.6	0.6	0.1	0			
4		0	0.2	0.1	1.0	0.5	0.6	0.1	0			
5		0	0.1	0.1	1.0	0.5	0.6	0.1	0			
6		0	0.2	0.1	0.9	0.8	0.5	0.2	0			
7		0	0.1	0.1	0.9	0.7	0.4	0.4	0			
8		0	0.1	0.1	0.7	0.6	0.3	0.2	0			
9		0	0.1	0.1	0.6	0.7	0.4	0.1 *	0			
10	*	0	0.2	0.1	0.6 *	0.6	0.3 *	0.1	0		*	
11		0	0.2	0.1	1.6	0.5	0.2	0.1	0	*		
12	N	5.4	0.2	0.1	2.1	0.4	0.4	0.1	0 *	N	N	N *
13	O	0.7	0.2	0.1	1.1	0.4 *	0.5	0.1	0	O	O	O
14		1.0	0.2	0.1	0.9	0.3	0.3	0.1	0			
15		0.2	0.2	0.1	1.0	5.9	0.2	0.1	0			
16	F	0.1	0.2	0.1	1.7	2.6	0.2	0	0	F	F	F
17	L	0.1	0.2	0.1	1.2	3.7	0.1	0	0	L	L	L
18	O	0.1	0.2	0.1	1.2	2.5	0.2	0	0	O	O	O
19	W	0.1	0.2	0.1	0.9	1.5	0.1	0.1	0	W	W	W
20		0.1	0.2	0.1	1.0	1.3	0.1	0.2	0			
21		0.1	0.2	0.1	0.9	1.2	0.1	0.1	0			
22		0.1	0.2	0.1	0.8	1.0	0.8	0.1	0			
23		0.1 *	0.2	0.1	0.7	1.4	0.6	0	0			
24		0.1	0.2	0.1	0.8	1.6	0.5	0 *	0			
25		0.1	0.2	0.1	0.7	4.3	0.4	0	0			
26		3.4	0.2	3.8 *	0.6	2.1	0.2	0	0			
27		0.6	0.2 *	1.3	0.5	1.9	0.3	0	0			
28		0.2	0.2 *	0.4	0.6	1.7	0.1	0	0			
29		0.2	0.2	0.3		1.2	0.1	0	0			
30		0.1	0.1	0.7		1.1	0.1	0	0			
31			0.2	0.6		0.8		0				
Mean	0	0.4	0.2	0.3	1.0	1.4	0.4	0.1	0	0	0	0
Max. Mean	0	5.4	0.8	3.8	2.1	5.9	0.8	0.4	0.1	0	0	0
Min. Mean	0	0.1	0.1	0.1	0.5	0.3	0.1	0	0	0	0	0
Ac.-Ft.	0	25	13	19	55	86	21	5	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 224

* Discharge measurement or observation of no flow made on this day.

TABLE 137

DAILY MEAN DISCHARGE
MARIPOSA CREEK NEAR CATHAY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	117	1.4	6.4	2.6	3.2	0.6	0.3			
2		0	57	1.4	8.1	2.4	2.9	1.0	0.3			
3		0	13	1.4	16	2.4	2.8	1.0	0.2			
4		0	6.8	1.4	9.7	2.4	2.7	1.1	0.1			
5		0	4.7	1.4	7.2	2.6	2.5	1.0	0.1			
6		0	3.9	1.4	5.9	2.9	2.0	1.4	0.1			
7		0	3.0	1.4	4.9	4.0	2.0	2.3	0.1			
8		0	2.7	1.4	4.4	3.1	1.7	2.1	0.1			
9		0	2.5	1.4	4.2	2.7	1.8	1.4	0			
10	*	0	2.2	1.4 *	3.7	2.7	1.8	1.2	0		*	
11		0	2.1	1.4	4.2	2.1	1.6	1.1	0	*		
12	N	0	2.1 *	1.5	6.9	2.0	1.7	1.1	0 *	N	N	N
13	O	0	1.9	1.4	5.2	1.8	2.3	1.0	0	O	O	O *
14		0	1.7	1.4	4.3	1.8	1.9	1.0	0			
15		0	1.5	1.4	3.9	20	1.8	1.0	0			
16	F	0	1.5	1.3	5.5	13	1.7	0.7	0	F	F	F
17	L	0	1.5	1.3	5.2	14	1.5	0.7	0	L	L	L
18	O	0	1.4	1.3	4.2	12	1.5	0.6	0	O	O	O
19	W	0	1.5	1.3	3.8	9.4	1.4	0.7	0	W	W	W
20		0	1.5	1.2	3.5	6.7	1.2	1.3	0			
21		0	1.7	1.3	3.3	5.9	1.5	1.1	0			
22		0	1.5	1.3	3.0	5.9	2.5	1.1	0			
23		0 *	1.6	1.3	2.9	5.7	3.1	0.8	0			
24		0	1.6	1.3	2.8 *	6.0 *	2.6	0.7	0			
25		0	1.6	1.4	2.6	8.3	2.2	0.5 *	0			
26		27	1.4	17 *	2.5	6.3	1.9 *	0.4	0			
27		15	1.5	16	2.3	6.2	1.6	0.4	0			
28		5.0	1.4	7.3	2.9	6.1	1.4	0.3	0			
29		3.1	1.4	5.7		4.7	1.2	0.2	0			
30		2.3	1.3	7.8		4.0	1.1	0.2	0			
31			1.4	6.8		3.6		0.3				
Mean	0	1.7	7.9	3.1	5.0	5.6	2.0	0.9	0	0	0	0
Max. Mean	0	27	117	17	16	20	3.2	2.3	0.3	0	0	0
Min. Mean	0	2.3	1.3	1.2	2.3	1.8	1.1	0.2	0	0	0	0
Ac.-Ft.	0	104	488	188	277	344	117	56	3	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1577

* Discharge measurement or observation of no flow made on this day.

TABLE 138

DAILY MEAN DISCHARGE
MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2	9	3	4	1				
2			0	2	9	3	4	1				
3			2	2	10	2	4	1				
4			6	2	11	2	3	1				
5			6	2	10	2	3	0.9				
6			5	2	9	2	3	0.9				
7			4	2	8	2	2	0.9				
8			3	2	7	2	2	0.8				
9			3	2	6	2	2	0.7				
10			2	2	5	3	2	0.7				
11			2	2	5	3	2	0.6				
12	N	N	2	2	5	3	2	0.6	N	N	N	N
13	O	O	2	2	5	3	2	0.5	O	O	O	O
14			2	2	6	3	2	0.4				
15			2	2	6	3	2	0.3				
16	F	F	2	2	6	10	2	0.2	F	F	F	F
17	L	L	2	3	5	13	1	0.1	L	L	L	L
18	O	O	2	3	5	11	1	0	O	O	O	O
19	W	W	2	3	5	11	1	0	W	W	W	W
20			2	3	5	10	1	0				
21			2	3	5	9	1	0				
22			2	3	4	8	1	0				
23			2	3	4	7	1	0				
24			3	3	4	6	1	0				
25			3	4	3	7	1	0				
26			3	4	3	7	1	0				
27			3	7	3	7	1	0				
28			3	13	3	7	1	0				
29			3	10		5	1	0				
30			3	9		5	1	0				
31			2	8		5		0				
Mean	0	0	2.6	3.6	6	5	1.8	0.4	0	0	0	0
Max. Mean	0	0	6	13	11	13	4	1	0	0	0	0
Min. Mean	0	0	0	2	3	2	1	0	0	0	0	0
Ac-Ft.	0	0	159	220	329	329	109	23	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1169

TABLE 139

DAILY MEAN DISCHARGE
OWENS CREEK BELOW OWENS RESERVOIR

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	.2	.4	1	.5	.3					
2		0	.6	.4	1	.5	.3					
3		0	.7	.4	3	.5	.3					
4		0	.4	.4	2	.5	.3					
5		0	.3	.4	1	.5	0					
6		0	.3	.4	1	.5	0					
7		0	.3	.4	.5	.5	0					
8		0	.3	.4	.5	.5	0					
9		0	.3	.4	.5	.5	0					
10		0	.3	.4	.5	.5	0					
11	N	0	.3	.4	.5	.5	0	N	N	N	N	N
12	O	2	.3	.5	.5	.4	0	O	O	O	O	O
13		.3	.3	.5	1	.4	0					
14		.1	.3	.5	1	.3	0					
15		0	.3	.5	.5	2	0					
16	F	0	.3	.5	1	1	0	F	F	F	F	F
17	L	0	.3	.5	.5	.8	0	L	L	L	L	L
18	O	0	.3	.5	.5	.7	0	O	O	O	O	O
19	W	0	.4	.5	.5	.6	0	W	W	W	W	W
20		0	.4	.5	.5	.6	0					
21		0	.4	.5	.5	.5	0					
22		0	.4	.5	.5	.5	0					
23		0	.4	.5	.5	.5	0					
24		0	.4	.5	.5	.5	0					
25		0	.4	.6	.5	.5	0					
26		0	.4	2	.5	.5	0					
27		0	.4	4	.5	.5	0					
28		0	.4	2	.5	.5	0					
29		0	.4	1		.4	0					
30		0	.4	2		.3	0					
31			.4	2		.3						
Mean	0	0.1	0.4	0.8	0.8	0.6	0.04	0	0	0	0	0
Max. Mean	0	2	.7	4	3	2	.3	0	0	0	0	0
Min. Mean	0	0	.2	.4	.5	.3	.3	0	0	0	0	0
Ac-Ft.	0	4	22	49	43	34	2	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 154

TABLE 140

DAILY MEAN DISCHARGE
BEAR CREEK NEAR CATHAY

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	140	0.5	2.9	0.9	1.2					
2		0	97	0.4	4.9	0.9	1.1					
3		0	15	0.4	15	0.7	1.0					
4		0	5.8	0.4	7.4	0.8	0.8					
5		0	3.5	0.4	4.7	0.7	0.6					
6		0	2.5	0.4	3.6	1.0	0.5					
7		0	2.0	0.4	2.7	0.9	0.5					
8		0	1.8	0.4	2.5	0.8	0.4					
9		0	1.6	0.3	2.0	0.8	0.4					
10	*	0	1.2	0.3	1.8	0.7 *	0.5 *	*				
11		0 *	1.1	0.3	2.7	0.6	0.5					
12	N	0	0.9 *	0.3	8.5	0.5	0.5	N	N	N	N	N
13	O	0.1	0.9	0.3	5.6	0.5	0.5	O	O *	O	O	O
14		0.2	0.9	0.2	3.7	0.5	0.5					
15		0	0.8	0.2	2.9	1.4	0.5					
16	F	0	0.9	0.2	3.1	2.1	0.5	F	F	F	F	F
17	L	0	0.8	0.1	2.7	4.4	0.4	L	L	L	L	L
18	O	0	0.8	0.1	2.3	8.2	0.3	O	O	O	O	O
19	W	0	0.8	0.2	1.9	4.1	0.2	W	W	W	W	W
20		0	0.7	0.2	1.8	3.2	0.1					
21		0	0.8	0.2	1.6	2.6	0.1					
22		0	0.8	0.1	1.4	2.3	0.4					
23		0	0.7	0.1	1.3	2.2	0.4		*			
24		0	0.7	0.1	1.3	2.0	0.3					
25		0	0.7	0.1	1.3	2.1	0.4					
26		13	0.6	2.4 *	1.3	1.7	0.3					
27		7.6	0.7	4.8	1.0	1.5	0.2					
28		2.7	0.5	2.9	1.1	1.4	0.2					
29		1.7	0.5	2.4		1.3	0.1					
30		1.5	0.5	3.1		1.2	0					
31			0.5	2.9		1.3						
Mean	0	0.9	9.2	0.8	3.3	1.7	0.4	0	0	0	0	0
Max. Mean	0	13	140	4.8	15	8.[illegible]	1.2	0	0	0	0	0
Min. Mean	0	0.0	0.5	0.1	1.0	0.5	0	0	0	0	0	0
Ac.-Ft.	0	53	567	50	185	106	27	0	0	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 988

* Discharge measurement or observation of no flow made on this day.

TABLE 141

DAILY MEAN DISCHARGE
BEAR CREEK BELOW BEAR RESERVOIR

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2	7	3	4	2	1			
2			132	2	7	3	3	2	1			
3			44	2	9	4	3	2	1			
4			15	2	17	4	3	2	1			
5			9	2	12	4	3	2	1			
6			7	2	9	4	3	2	1			
7			6	2	7	4	3	1	1			
8			5	2	6	4	3	1	0			
9			5	2	5	4	2	1	0			
10			4	2	5	4	2	1	0			
11			4	2	4	4	2	1	0			
12	N	N	4	2	5	3	2	1		N	N	N
13	O	O	4	2	7	3	2	1	0	O	O	O
14			3	2	8	3	2	1	0			
15			3	2	6	4	2	1	0			
16	F	F	3	2	5	4	2	1	0	F	F	F
17	L	L	3	2	5	5	2	1	0	L	L	L
18	O	O	2	2	5	5	2	1	0	O	O	O
19	W	W	2	2	5	10	2	1	0	W	W	W
20			2	2	4	9	2	1	0			
21			2	2	4	7	2	1	0			
22			2	2	4	6	2	1	0			
23			2	2	4	6	2	1	0			
24			2	2	4	5	2	1	0			
25			2	3	3	5	2	1	0			
26			2	4	3	5	2	1				
27			2	5	3	5	2	1				
28			2	[illegible]	3	5	2	1				
29			2	7		4	2	1				
30			2	7		4	2	1				
31			2	8		4		1				
Mean	0	0	9	3	6	5	2	1	0.2	0	0	0
Max Mean	0	0	132	8	17	10	4	2	1	0	0	0
Min. Mean	0	0	0	[illegible]	3	3	2	1	0	0	0	0
Ac.-Ft	0	0	553	175	329	286	137	73	14	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre Feet 1547

TABLE 142

DAILY MEAN DISCHARGE
BURNS CREEK AT HORNITOS

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.4	0.3	0.4	0.1				
2					3.6	0.3	0.3	0.1				
3					2.1	0.3	0.4	0				
4				0	0.9	0.3	0.4	0				
5				0	0.7	0.3	0.3	0				
6				0	0.6	0.4	0.3	0.1				
7				0	0.6	0.2	0.2	0.1				
8				0	0.6	0.2	0.2	0				
9		•		0	0.5	0.3	0.2	0			•	
10	•		•	0 •	0.5	0.3	0.2	0				
11				0	0.7	0.4	0.2	0		•		•
12	N	N	N	0	1.3	0.3	0.2	0	N	N	N	N
13	0	0	0	0	1.0	0.2	0.3	0	0 •	0	0	0
14				0	0.9	0.3	0.2	0				
15				0	0.9	2.9	0.1	0				
16	F	F	F	0	0.7	1.5	0.2	0	F	F	F	F
17	L	L	L	0	0.6	3.9	0.2	0	L	L	L	L
18	O	O	O	0	0.5	2.0	0.1	0	O	O	O	O
19	W	W	W	0	0.4	1.3	0.1	0	W	W	W	W
20				0	0.4	1.6	0	0				
21				0	0.4	1.4	0.1	0				
22				0	0.4	1.3	0.2	0				
23				0	0.3	1.5	0.1	0				
24				0	0.3 •	1.5 •	0.1	0				
25				0	0.4	0.9	0.1	0 •				
26				0.2	0.3	0.8	0 •	0				
27				0	0.3	0.7	0.1	0				•
28				0	0.3	0.8	0.1	0				
29				0		0.7	0.1	0				
30				0.3		0.7	0.0	0				
31				0.5		0.7		0				
Mean	0	0	0	0	0.7	0.9	0.2	0	0	0	0	0
Max. Mean	0	0	0	0.5	3.6	3.9	0.4	0.1	0	0	0	0
Min. Mean	0	0	0	0	0.3	0.2	0	0	0	0	0	0
Ac.-Ft.	0	0	0	2	41	56	11	1	0	0	0	-

E – Estimated NR – No Record

Total Discharge in Acre-Feet 111

* Discharge measurement or observation of no flow made on this day.

TABLE 143

DAILY MEAN DISCHARGE
BURNS CREEK BELOW BURNS RESERVOIR

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0						
2					2	0						
3					5	0						
4					1.5	0						
5					1.0	0						
6					0.5	0						
7					0.5	0						
8					0.4	0						
9					0.3	0						
10					0.3	0						
11					0.2	0						
12	N	N	N	N	0.2	0	N	N	N	N	N	N
13	0	0	0	0	0.1	0	0	0	0	0	0	0
14					0.1	0						
15					0.1	61						
16	F	F	F	F	0	6	F	F	F	F	F	F
17	L	L	L	L	0	4	L	L	L	L	L	L
18	O	O	O	O	0	3	O	O	O	O	O	O
19	W	W	W	W	0	1.5	W	W	W	W	W	W
20					0	1.5						
21					0	1.0						
22					0	0.5						
23					0	0.5						
24					0	0.4						
25					0	0.4						
26					0	0.3						
27					0	0.2						
28					0	0.2						
29						0.1						
30						0						
31						0						
Mean	0	0	0	0	0.4	2.6	0	0	0	0	0	0
Max. Mean	0	0	0	0	5	61	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	24	160	0	0	0	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 184

TABLE 144

DAILY MEAN DISCHARGE
NORTH FORK MERCED RIVER NEAR COULTERVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0.1	0.1	18	0.7	2.4	0.7	3.4	0.9	1.7	0.2	0.1	0.1
2	0.1	0.1	16	0.7	3.8	0.7	3.1	0.9	1.6	0.2	0	0.1
3	0.1	0.2	7.9	0.7	4.1	0.6	2.8	0.9	1.1	0.1	0	0.1
4	0.2	0.2	5.2	0.7	3.1	0.6	2.6	0.8	1.0	0.1	0	0.1
5	0.2	0.2	3.9	0.8	2.3	0.8	2.5	0.8	0.8	0.2 •	0.1	0.1
6	0.2	0.4	3.2	0.8	2.2	2.3	2.3	1.7	0.7	0.3 •	0	0.1
7	0.2	0.4	2.8	0.7	2.0	2.1	1.9	3.9	0.6	0.2	0	0.1
8	0.2	0.3	2.3	0.6	1.6	1.7	1.7	2.1	0.5	0.3	0	0.1
9	0.2	0.3	2.1	0.6	1.2	1.7	1.5	1.7	0.5	0.3	0	0.1
10	0.2	0.4	1.8	0.7	1.2 •	1.4 •	1.2 •	1.4	0.4	0.2 •	0.1	0.2
11	0.3	0.5	1.7	0.7	3.3	1.1	1.2	1.6	0.4	0.1	0.1	0.2
12	0.3	1.3	1.6	0.7	3.6	1.0	1.6	1.5	0.4	0.2	0.1	0.2
13	0.3	2.5	1.6	0.8	2.7	1.0	2.2	1.4	0.3	0.1	0.1	0.2
14	0.4	5.1	1.6	0.8	2.0	1.0	1.5	1.4	0.3	0	0.1	0.2
15	0.5	1.6	1.5	0.7	1.9	4.4	1.3	1.4	0.3	0.1	0	0.3
16	0.6	1.0	1.3	0.7	2.7	3.5	1.0	1.4	0.3	0.1	0	0.3
17	0.8	0.8	1.2	0.8	1.7	7.7	1.0	1.2	0.3	0.1	0	0.3
18	0.6	0.9	1.3	0.7	1.4	5.9	0.9	1.1	0.3	0.1	0	0.2
19	0.3	0.9	1.1	0.7	1.3	4.7	0.9	1.2	0.2	0.1	0	0.2
20	0.2	0.8	1.1	0.8	1.1	4.1	0.8	1.4	0.2	0.1	0	0.2
21	0.2	0.6	1.1	0.8	0.8	3.4	0.9	1.4	0.2	0.1	0	0.3
22	0.2	0.5 •	0.9	0.8	0.8	3.0	3.3	1.2	0.3	0.1	0	0.3
23	0.3	0.5 •	0.9	0.7	0.8	4.0	2.4	1.0	0.2	0.1	0	0.3
24	0.4	0.5	1.0	0.7	0.6	4.3	1.6	0.9	0.2	0.1	0 •	0.3
25	0.2	0.5	0.9	0.7	0.6	6.1	1.4 •	0.9 •	0.2	0.1 •	0	0.3
26	0.3 •	6.0	0.9	5.4 •	0.6	5.2	1.3	0.9	0.2	0	0.1	0.3
27	0.4	3.4	0.9 •	3.6	0.6	5.5	1.1	0.8	0.2	0.1	0.1	0.3 •
28	0.6	2.0	0.9	2.3	0.6	6.5	1.0	0.9	0.2 •	0.1	0.1	0.1
29	0.7	1.4	0.9	2.2		5.5	1.0	0.8	0.3	0.1	0.1	0.1
30	0.6	1.3	0.9	2.6		4.6	0.8	0.8	0.2	0.1	0.1	0.2
31	0.4		0.7	2.7		3.6		1.2		0.1	0.1	
Mean	0.3	1.2	2.8	1.2	1.8	3.2	1.7	1.3	0.5	0.1	0	0.2
Max. Mean	0.8	6.0	18	5.4	4.1	7.7	3.4	3.9	1.7	0.3	0.1	0.3
Min. Mean	0.1	0.1	0.7	0.6	0.6	0.6	0.8	0.8	0.2	0	0	0.1
Ac.-Ft.	20	69	173	73	101	196	100	78	28	8	3.0	12

E - Estimated NR - No Record

Total Discharge in Acre-Feet 861

• Discharge measurement or observation of no flow made on this day.

TABLE 145

DAILY MEAN DISCHARGE
MAXWELL CREEK AT COULTERVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1		0	4.2	0.1	0.8	0.5	0.8	0.4	1.6			
2		0	5.8	0.1	2.0	0.5	0.6	0.4	1.4			
3		0	1.9	0.1	3.1	0.5	0.5	0.4	1.2			
4		0	1.3	0.1	1.7	0.4	0.5	0.4	1.1			
5		0	1.1	0.1	1.2	0.5	0.4	0.3	1.0			
6		0	0.7	0.1	0.9	1.7	0.4	0.6	1.0			
7		0	0.6	0.1	0.8	1.8	0.3	1.4	0.8			
8		0	0.6	0.1	0.7	1.0	0.3	0.8	0.6			
9			0.4	0.1	1.1	1.0	0.3	0.5	0.5 •			
10	•		0.2	0.1 •	1.1	1.0	0.3	0.4	0.7	•	•	
11	N	0	0.2	0.2	1.8	0.7	0.3	0.3	0.7			•
12	O	0	0.2 •	0.2	3.4	0.8	0.4	0.4	0.6	N	N	N
13			0.1	0.2	1.9	0.7	0.4	0.4	0.6	O	O	O
14			0.1	0.2	1.3	0.7	0.4	0.3	0.5			
15			0.1	0.2	1.2	6.0	0.3	0.3	0.4			
16	F	0	0.1	0.2	1.4	4.0	0.3	0.2	0.2	F	F	F
17	L	0	0.2	0.1	1.1	7.9	0.3	0.2	0.1	L	L	L
18	O	0	0.2	0.1	0.9	4.0	0.3	0.2	0	O	O	O
19	W	0	0..	0.1	0.9	2.7	0.3	0.2	0	W	W	W
20		0	0.2	0.1	0.8	2.2	0.4	0.2	0			
21		0	0.2	0.1	0.7	1.8	0.4	0.2	0			
22		0	0.3	0.2	0.7	1.6	1.1	0.2	0			
23		0 •	0.3	0.3	0.7	2.2	1.1	0.2	0			
24		0	0.3	0.3	0.6 •	1.8 •	1.0	0.2	0			
25		0	0.4	0.3	0.5	1.6	0..	0.1 •	0			
26		1.1	0.5	1.9 •	0.5	1.4	0.6	.1	0			
27		0.5	0.3	1.0	0.5	1.4	0.6	0.1	0			
28		0.1	0.1	0.5	0.6	1.3	0.5	0.4	0			
29		0	0.2	0.6		1.0	0.4	0.	0			
30		0	0.2	0.7		1.0	.4	1.0	0			
31			0.2	0.6		0.8		1.4				
Mean	0	0.1	0.7	0.3	1.2	1.8	0.5	0.4	0.4	0	0	0
Max. Mean	0	1.1	5.8	1.9	3.4	7.9	1.1	1.4	1.6		0	
Min. Mean	0	0	0.1	0.1	0.5	0.4	0.3	0.1	0	0		0
Ac.-Ft.	0	4	42	18	65	108	29	25	2	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 315

• Discharge measurement or observation of no flow made on this day.

TABLE 146

DAILY MEAN DISCHARGE
MERCED RIVER BELOW SNELLING

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	4.4	26	13	25	20	24	58	70	55	60	57
2	2.2	5.8	31	13	29	20	25	52	54	56	61	57
3	2.1	7.2	29	16	34	20	21	49	55	65	62	57
4	2.2	12	26	19	28	20	13	48	52	61	62	55
5	1.9	8.9	27	17	27	20	9.5	47	55	63	62	51
6	2.5	13	24	13	25	23	7.6	64	66	60	63	50
7	16	11	22	14	24	23	7.5	72	67	57	61	50
8	6.2	11	22	13	24	21	9.2	54	63	54	62	49
9	2.5	12	23	12	24	20	11	47	61	60	64	49
10	1.2	13	21	12	24	17	11	53	64	71	64	48
11	0.8	12	17	13	25	15	10	52	68	56	65	34
12	0.8	15	16	13	25	15	6.2	47	65	54	62	8.5
13	0.7	16	16	13	24	15	5.5	38	60	49	61	3.9
14	0.7	17	20	13	23	16	6.0	35	60	50	62	4.5
15	0.8	15	22	13	23 •	30	12	34	58	56	64	4.3
16	1.0	13 •	23	13	24	29 •	32	35	55	57	66	3.8
17	0.9	13	23	13 •	23	32	33	33	55	60	72	7.2
18	1.3 •	15	24	14	22	31	41	34	56	53	76	8.3
19	2.5	17	25 •	13	22	27	51 •	42	57	46	74	7.9
20	3.4	15	25	13	22	27	61	88	58	46	73	7.5
21	3.6	16	22	13	21	26	71	87	60	49	77	8.1
22	3.4	16	24	13	20	26	68	77	61	55	60	10
23	3.9	16	21	13	20	30	55	58	60 •	57	59	14
24	3.6	15	20	16	20	28	58	57	63	59	55 •	14
25	3.1	15	21	22	20	28	52	61 •	62	56 •	52	11
26	3.2	26	19	31	20	27	52	57	58	54	53	6.7
27	3.1	19	14	27	20	28	68	55	53	52	55	5.8 •
28	3.0	19	14	23	20	27	67	61	52	51	56	4.9
29	3.3	16	14	24		25	68	62	53	51	55	5.5
30	3.3	17	14	28		25	67	54	47	52	55	4.6
31	3.1		13	25		24		72		52	55	
Mean	2.8	14.1	21.2	16.4	23.5	23.7	34.1	54.3	58.9	55.4	62.2	23.3
Max. Mean	16	26	31	31	34	32	71	88	70	71	77	57
Min. Mean	0.7	4.4	13	12	20	15	5.5	33	47	46	52	3.8
Ac-Ft.	175	838	1305	1008	1305	1458	2028	3338	3507	3406	3824	1383

E - Estimated NR - No Record

Total Discharge in Acre-Feet 23580

• Discharge measurement or observation of no flow made on this day

TABLE 147

DAILY MEAN DISCHARGE
MERCED RIVER AT CRESSEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	36	72	64	97	64	58	84	85	28	28	NR
2	30	33	89	62	93	64	65	83	100	24	26	NR
3	30	37	91	62	98	65	66	82	106	35	32	NR
4	29	42	89	62	103	64	67	72	92	33	30	NR
5	31	46	86	63	99	62	60	58	87	36	35	NR
6	36	58	84	65	97	66	53	64	87	42	31	NR
7	43	63	82	65	92	65	51	79	86	51	31	NR
8	42	59	79	65	88	65	47	112	89	51	29	NR
9	41	55	74	63	88	66	44	107	83	48	34	NR
10	41	55	71	62	83	64	45	92	75	44	32	NR
11	41	56	70	63	80	63	44	79	72	43	38	NR
12	38	57	69	63	81	63	43	80	63	46	36	48
13	39	60	67	63	83	63	44	82	65	44	33	46
14	39	61	67	65	93	59	43	72	63	37	34	44
15	41	61	67	65	78 •	69	43	63	63	37	33	46
16	38	56 •	66	65	81	81 •	40	57	59	43	46	43
17	39	63	67	67 •	77	83	36	57	55	59	42	39
18	40 •	64	67	67	76	78	38	50	50	59	51	36
19	39	64	80 •	71	72	77	37 •	46	51	49	49	30
20	38	63	67	70	71	77	36	53	51	57	38	23
21	41	67	65	69	70	76	45	60	50	51	30	21
22	40	66	65	68	69	74	76	88	56	52	26	29
23	39	68	66	66	69	75	80	84	52	36	30	36
24	39	67	69	65	66	75	86	84	51	39	22 •	37
25	38	67	67	67	66	79	75	71	51	28 •	NR	33
26	39	71	67	100	65	79	80	70	54 •	22	NR	25 •
27	38	74	69	117	65	79	88	78	50	22	NR	28
28	34	78	68	100	64	77	98	82	35	19	NR	31
29	39	78	67	95		75	110	73 •	22	13	NR	21
30	39	75	67	103		62	95	75	17	15	NR	19
31	39		66	105		59		82		25	NR	
Mean	37.7	60	72.3	72.5	80.9	69.9	59.8	74.8	64.0	38.3		
Max. Mean	43	78	91	117	103	83	110	112	106	59		
Min. Mean	28	33	65	62	64	59	36	46	17	13		
Ac-Ft.	2317	3570	4443	4457	4491	4300	3556	4600	3808	2356		

E - Estimated NR - No Record

Total Discharge in Acre-Feet

• Discharge measurement or observation of no flow made on this day

TABLE 148

DAILY MEAN DISCHARGE
ORESTIMBA CREEK NEAR CROWS LANDING

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0		0		0	1.4	11	4.7	7.0	8.7	8.1
2	0.7	0		0		0	31	4.7	10	10	8.9	5.9
3	1.2	0		0		0	26	4.2	7.1	7.9	6.9	3.7
4	2.2	0		0		2.4	2.9	3.2	7.0	8.4	8.8	16
5	1.4	0		0		13	3.1	3.5	7.9	6.2	9.1	4.5
6	1.1	0.1		0		12 *	3.2	5.3	8.2	6.2	11	3.8
7	0.1	4.1		0		16	3.0	26	8.5	5.0	11	3.7
8	0.3	2.5		0		5.9	3.9	12	7.5	8.3	6.8	3.3
9	0.4	0.1		0		3.1	6.2	6.9	5.0	5.4	8.5	2.8
10	0.2	1.1 *		0		2.4	5.1	6.6	4.5	7.0	7.9	4.0
11	0.6	2.2		0		8.1	5.9	6.0	7.0	6.9	5.9	3.0
12	2.3	1.4	N	0	N	3.2	5.2	3.5 *	12	5.9	6.3	1.7
13	2.0	0.7	O	0	O	3.7	5.8	4.5	11	5.3	7.7	1.6
14	2.1 *	0.3		0		2.9	6.9	13	8.8	5.0	13	1.4
15	1.6	0 .		0		1.6	3.5	4.4	6.2	7.4	6.8	3.1
16	1.1	0	F *	0	F	3.5	1.4	4.8	5.2	6.6	6.2	3.7
17	0.7	0	L	0	L *	0.8 *	3.2	4.7	4.6	5.6	5.7	4.6
18	0.9	0	O	0	O	6.6	4.2	3.3	5.4	5.0	6.0	14
19	1.9	0	W	0	W	0.8	5.8	2.8	5.0	4.2	9.7	7.7
20	0.7	0		0		1.1	4.9	3.5	3.6	3.0	4.9	8.0
21	0.8	0		0		1.3	4.2	9.0	3.0	2.8	4.9	7.3
22	0.8	0		0		1.8	4.7	21	1.7	3.5	2.4	15
23	0.3	0		0		1.8	6.0	15	3.8	2.6	1.8	5.9
24	0.1	0		0		2.9	9.1	30	5.8	1.8	2.2 *	3.3
25	0	0		0		16	5.0	17	3.5	4.2	3.2	13
26	0	0		3.4		28	4.8	3.4	6.4 *	1.3	4.7	3.0 *
27	0	0		0.6 *		28	4.8	3.9	5.2	2.5 *	5.6	3.7
28	0	0		0		11	4.1 *	9.5	6.7	4.6	8.6	1.8
29	0	0		0		6.0	4.1	17 *	5.9	3.4	5.2	2.0
30	0	0		0		21	4.4	5.2	5.2	5.6	7.4	0.8
31	0			0		2.2		4.9		11	8.7	
Mean	0.8	0.4	0	0.1	0	6.7	6.1	8.7	6.2	5.5	6.9	5.3
Max. Mean	2.3	4.1	0	3.4	0	28	31	30	12	11	13	16
Min. Mean	0	0	0	0	0	0	1.4	2.8	1.7	1.3	1.8	0.8
Ac.-Ft.	48	25	0	8	0	411	365	535	370	336	425	318

E - Estimated NR - No Record

Total Discharge in Acre-Feet 2841

* Discharge measurement or observation of no flow made on this day

TABLE 149

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT GRAYSON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	210	205	365	320	650	350	270	225	270	105	80	240
2	215	205	400	315	635	330	285	225	219	95	80	215
3	210	210	410	320	625	315	310	200	195	130	80	215
4	195	220	430	325	625	320	260	215	215	135	80	230
5	195	240	415	325	605	375	225	225	255	130	70	230
6	215	270	395	325	595	370	230	200	245	120	85	195
7	215	295	385	320	590	390	230	270	225	115	90	170
8	225	290	380	325	565	340	205	345	200	120	80	185
9	250	305	370	335	550	300	215	315	190	120	80	175
10	250	310	365	375	540	280	230	315	180	120	80	190
11	255	315	360	445	535	270	230	300	175	100	80	205
12	240	320	350	510	520	250	190	285	210	80	80	175
13	235	335	350	530	505	245	215	285	180	80	75	155
14	215	335	350	525	490	225	190	305	135	85	100	150
15	235	340	345	510	475	190	170	305	125	90	110	145
16	235	345	345	495	470	190	165	285	125	95	105	115
17	235	335	335	475	465	205	160	285	120	95	95	120
18	235	330	325	470	445	210	130	285	110	85	90	165
19	220	325	310	460	430	240	120	265	110	80	85	155
20	215	325	305	450	420	245	115	255	130	85	95	155
21	205	325	310	430	420	245	105	275	115	90	110	145
22	210	315	315	470	405	255	110	280	100	80	120	165
23	210	320	315	555	395	255	140	275	110	80	110	150
24	215	315	315	455	400	265	205	280	120	75	110	165
25	215	320	315	415	415	260	240	290	135	70	125	155
26	220	325	315	470	410	290	230	275	145	80	120	150
27	215	330	320	555	401	305	225	260	95	100	135	145
28	215	330	330	615	385	285	220	265	90	90	160	155
29	215	335	350	645		265	215	285	100	80	180	145
30	215	340	355	675		260	220	290	95	95	185	140
31	210		350	680		270		290		70	195	
Mean	220	305	350	455	499	277	202	273	157	90	105	170
Max. Mean	255	355	430	680	650	390	310	345	270	135	195	245
Min. Mean	195	205	305	315	385	190	105	200	90	70	70	115
Ac.-Ft.	13573	18101	21580	28007	27701	17048	12010	16770	9360	5001	6486	10116

E - Estimated NR - No Record

Total Discharge in Acre-Feet 186653

TABLE 150

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	396	430	499	262	216	46	43	35	29	28	29
2	33	427	569	351	268	71	43	42	40	29	27	25
3	30	381	492	595	324	55	41	40	44	29	27	28
4	33	402	422	639	250	52	41	38	38	28	29	25
5	35	387	371	608	222	52	40	37	36	26	30	27
6	36	384	579	616	221	53	39	41	36	28	36	28
7	34	422	681	587	271	49	39	45	34	30	35	30
8	37	387	657	395	250	46	37	43	31	29	33	28
9	40	388	637	406	234	44	39	43	30	28	34	27
10	154	390	629	417	237	44	39	43	32	28	37	26
11	343	396	620	383	204	43	37	41	34	28	38	26
12	342	398	458	575	142	46	35	38	35	27	39	26
13	383	316	644	568	111	46	34	39	32	28	40	24
14	388	347	663	490	272	43	32	41	28	27	38	24
15	385	314	653	394	226 *	56	35	38	27	25	36	30
16	290	344 *	616	418	271	57 *	41	37	28	24	33	32
17	265	386	511	539 *	249	53	40	35	30	26	34	32
18	390 *	387	592	577	250	49	35	35	36	26	33	30
19	387	267	615 *	584	206	48	33 *	35	35	24	34	29
20	390	254	680	584	175	47	32	34	30	26	37	27
21	388	284	642	581	236	45	33	36	29	27	36	29
22	247	404	652	424	207	44	42	37	29	26	37	32
23	66	403	630	374	186	45	44	35	36	27	35 *	31
24	170	309	615	560	248	44	43	32	31	27	30 *	31
25	317	104	620	432	234	43	44	33 *	30	26 *	30	31 *
26	336	246	566	509	198	41	42	31	30	27	31	31
27	390	269	591	445	234	41	41	35	28	28	34	34
28	390	345	624	373	266	43	40	35	26 *	31	34	35
29	366	419	651	347		42	40	32	29	30	32	34
30	341	425	631	386		41	41	31	29	28	31	33
31	311		629	309		42		35		26	30	
Mean	237	353	593	486	232	52.9	38.8	37.4	32.3	27.4	33.5	29.1
Max. Mean	390	427	681	639	324	216	44	45	44	31	40	35
Min. Mean	29	104	371	347	111	41	32	31	26	24	27	24
Ac-Ft.	14570	20990	36440	29860	12860	3255	2309	2301	1920	1682	2059	1734

E - Estimated NR - No Record

Total Discharge in Acre-Feet 130060

* Discharge measurement or observation of no flow made on this day.

TABLE 151

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT HICKMAN BRIDGE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	488	473	580	410	290	92	80	88	77	64	69
2	108	528	659	424	267	142	91	83	86	79	64	65
3	102	494	520	566	373	123	91	84	89	79	66	65
4	103	507	479	683	338	116	92	84	82	76	66	68
5	107	496	426	642	264	111	88	82	83	75	66	67
6	111	505	630	653	205	114	87	84	83	76	68	70
7	114	537	735	624	337	106	85	92	84	77	70	71
8	111	493	732	475	315	104	84	87	83	76	69	73
9	118	488	666	385	270	104	83	87	81	76	69	73
10	123	483	666	489	285	99	84	88	83	78	69	72
11	417	497	637	360	263	99	84	85	83	75	80	75
12	384	494	487	598	199	99	85	85	84	73	79	78
13	462	465	663	615	149	96	85	83	84	76	78	77
14	479	353	695	588	273	97	84	86	80	71	78	74
15	479	464	691	371	313 *	104	86	87	78	70	74	80
16	434	364	652	446	306	106 *	89	86	77	68	73	78
17	290	462	587	569 *	299	108	89	82	79	70	71	81
18	475	459	573	622	310	103	86	83	81	69	71	83
19	480	369	646 *	633	276	101	85	85	86	66	70	77
20	485 *	294	740	629	197	100	85 *	88	82	66	75	74
21	496	272	688	624	287	96	85	85	84	65	75	76
22	454	450	687	508	269	99	91	85	81	67	69	78
23	169	459	666	377	196	100	94	84	82	66	68	78
24	151	426	654	601	307	101	94	82	89	68	67 *	77
25	441	198	649	494	299	99	92	84 *	85	64 *	65	81 *
26	364	246 *	616	559	199	98	90	85	83	62	66	79
27	474	297	599	488	239	99	89	86	81	62	71	77
28	486	327	654	445	358	96	88	86	79 *	63	72	81
29	481	451	691	381		96	82	85	79	66	72	81
30	425	468	676	419		95	80	84	78	69	69	80
31	394		667	438		91		86		70	70	
Mean	317	428	632	525	279	109	87.3	84.9	82.6	70.8	70.5	75.3
Max. Mean	496	537	740	683	410	290	94	92	89	79	80	83
Min. Mean	102	198	426	360	149	91	80	80	77	62	64	65
Ac-Ft.	19490	25460	38880	32300	15480	6728	5197	5222	4913	4354	4332	4479

E - Estimated NR - No Record

Total Discharge in Acre-Feet 166800

* Discharge measurement or observation of no flow made on this day.

TABLE 152

DAILY MEAN DISCHARGE
DRY CREEK NEAR MODESTO

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	67	18	NR	11	62	9.8	11	9.8	25	10	8.0	38
2	60	14	NR	NR	63 *	9.7	10	12	32	11	7.7	25
3	46	13	45	NR	121	9.0	10	16	40	11	10	23
4	37	17	26	NR	162	8.5	9.3	24	27	16	10	23
5	24	19	16	NR	85	8.6	8.2	24	21	16	7.2	26
6	26	17	13	NR	37	9.7	7.8	24	18	17	15	36
7	27	16	NR	15	22	12	9.9	68	21	12	8.2	45
8	25	13	NR	16	15	13	19	92	24	11	9.7	46
9	31	13	NR	16	12	13	16	43	31	10	8.4	50
10	26	12	NR	15	11	13	23	25	38	16	13	46
11	23	11	NR	NR	12	13	23	16	38	12	15	41
12	25	11	NR	NR	11	13	18	10	30	16	16	34
13	26	13	NR	NR	11	12	21	8.3	26	14	16	27
14	22	13	NR	NR	11	12	24	6.7	20	12	21	28
15	21	13	NR	NR	12 *	13	23	12	21	7.7	22	25
16	22	14	NR	NR	12	13 *	22	14	22	7.7	14	23
17	23	13	NR	NR *	12	13	24	13	18	9.0	17	27
18	16	13 *	NR	8.5	12	12	20	18	15	9.4	17	42
19	14 *	13	NR	7.5	12	11	22	28	15	10	21	46
20	12	NR	NR	6.5	12	10	22 *	21	15	8.3	35	35
21	16	NR	NR	5.6	12	13	21	27	18	6.6	37	31
22	15	NR	NR	4.2	12	15	26	43	16	6.5	30	44
23	16	NR	11	3.3	12	14	70	29	14 *	8.7	23	46
24	16	NR	10	2.7	12	12	67	25	11	8.8	15 *	32
25	14	NR	10	2.2	12	10	37	20	16	9.8	14	25 *
26	16	NR	10	6.8	11	12	23	21 *	20	6.4 *	20	20
27	18	NR	10	71	10	14	15	21	21	6.3	19	22
28	18	NR	10	78	9.8	14	13	32	11	7.7	17	22
29	16	NR	10	51		13	8.8	42	6.7	7.0	22	16
30	17	NR	11	70 *		12	8.7	33	7.0	7.6	34	12
31	20		11	67		11		22		7.9	28	
Mean	24.4				28.5	11.9	21.1	25.8	21.3	10.3	17.7	31.9
Max. Mean	67				162	15	70	92	40	17	37	50
Min. Mean	12				9.8	8.5	7.8	6.7	6.7	6.3	7.2	12
Ac.-Ft.	1498				1582	731	1255	1586	1265	634	1091	1896

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement or observation of no flow made on this day.

TABLE 153

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT TUOLUMNE CITY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	265	565	645	800	645	440	205	160	170	160	145	205
2	260	630	665	730	615	400	210	165	175	160	135	215
3	260	680	805	600	520	310	200	170	185	155	130	225
4	255	675	760	695	605	270	195	165	185	165	145	225
5	255	700	695	800	570	250	195	175	170	160	145	225
6	255	705	620	800	475	250	195	190	175	160	145	230
7	270	680	780	800	415	250	190	215	175	160	145	230
8	265	725	940	785	470	245	185	230	170	160	145	230
9	265	705	945	680	450	235	185	230	180	170	140	230
10	260	670	910	615	415	230	195	195	165	160	145	230
11	260	670	910	640	415	230	190	195	170	155	160	225
12	420	685	885	570	395	225	175	190	170	140	175	225
13	520	685	755	710	350	225	170	175	170	135	195	225
14	595	645	850	755	315	225	175	175	175	120	190	230
15	620	550	925	730	375	230	180	160	165	130	190	225
16	630	605	925	600	420	230	180	155	160	140	190	230
17	595	560	890	615	415	240	170	145	165	135	185	225
18	475	630	815	695	420	230	170	150	155	130	175	230
19	585	640	790	750	415	225	170	165	170	130	170	235
20	630	560	885	770	395	215	175	175	165	120	190	235
21	645	480	950	775	340	215	175	185	165	115	195	225
22	650	455	920	775	390	215	200	170	170	120	195	220
23	620	595	920	675	385	215	210	175	170	130	190	225
24	405	620	895	580	340	215	215	165	150	135	180	235
25	335	595	885	705	400	210	205	165	165	140	175	225
26	255	440	885	740	405	210	180	165	165	140	170	225
27	505	395	850	740	335	215	175	175	155	135	180	240
28	595	450	840	720	370	215	170	175	150	130	200	240
29	635	480	900	665		210	165	180	145	150	200	240
30	640	585	925	630		200	155	185	145	155	190	240
31	590		910	645		200		175		145	190	
Mean	446	602	848	703	431	241	185	177	166	143	171	228
Max. Mean	650	725	950	800	645	440	215	230	185	170	200	240
Min. Mean	255	395	620	570	315	200	155	145	145	115	130	205
Ac.-Ft.	27402	35821	52116	43220	23921	14826	11028	10899	9907	8801	10522	13577

E - Estimated NR - No Record

Total Discharge in Acre-Feet 262046

TABLE 154

DAILY MEAN DISCHARGE
BURKHARDT DRAIN NEAR GRAYSON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	4.4	6.6	NR	NR	6.9	8.2	26	24	31	38	26
2	6.8	4.8	6.5	NR	NR	8.1	6.8	23	28	30	33	29
3	12	5.8	6.2	NR	NR	11	12	22	22	29	34	26
4	13	6.0	5.8	NR	NR	13	15	23	22	29	34	22
5	12	5.6	5.5	NR	NR	12 •	13	27	24	30	34	16
6	11	4.4	5.3	NR	NR	15 •	20	31	26	34	34	19
7	10	4.6	5.2	NR	NR	14 •	19	25	23	32	33	21
8	9.2	5.6	NR	NR	NR	14	20	22	27	29	35	23
9	7.3	5.3	NR	NR	NR	19	20	21	NR	29	36	26
10	8.6	5.6 •	NR	NR	NR	24	27	17	18	23	33	26
11	6.6	5.8	NR	NR	NR	22	27	20	20	28	36	21
12	4.9	5.1	NR	NR	NR	19	30	23	20	35	34	17
13	4.9	6.6	NR	NR	NR	18	31	20	19	33	38	21
14	7.5 •	8.0	NR	NR	NR	14	29	22	15	32	36	24
15	8.8	6.8	NR	NR	NR	11	33	25	18	32	35	20
16	7.8	6.9	NR	NR	NR	12	37	21	16	37	35	19
17	5.6	8.0	NR	NR	NR	11 •	41	20	26	38	37	16
18	6.8	NR	NR	NR	NR	9.5	42	20	28	31	39	12
19	5.8	NR	NR	NR	NR	13	40	17	33	27	39	15
20	5.8	NR	NR	NR	NR	9.2	35	17	32	31	38	16
21	5.3	NR	NR	NR	NR	9.2	37	18	32	33	36	13
22	6.2	NR	NR	NR	NR	8.0	42	20	32	37	35	14
23	7.7	NR	NR	NR	NR	8.2	42	20	26 •	39	34	12
24	6.6	NR	NR	NR	NR	9.9	39	15	26	41	32	15
25	6.9	NR	NR	NR	NR	13	40	13	26	39	31	13
26	5.6	9.0	NR	NR	NR	17	40	15 •	29	36 •	29	12
27	6.0	9.1	NR	NR	NR	15	35	19	30	32	28	11
28	6.4	8.9	NR	NR	NR	11	32 •	16	34	35	27	13
29	7.7	6.6	NR	NR		9.5	30	16	37	33	26	12
30	4.8	8.5	NR	NR		12	30	18	36	36	26	9.9
31	4.8		NR	NR		11 •		23		41	25	
Mean	7.4					11.0	29.1	20.5		33.0	33.5	18.0
Max. Mean	13					24	42	31		41	39	29
Min. Mean	4.8					6.9	6.8	13		23	25	9.9
Ac.-Ft.	456					656	1732	1260		2027	2063	1071

E – Estimated NR – No Record

Total Discharge in Acre-Feet

• Discharge measurement or observation of no flow made on this day.

TABLE 155

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	425	730	945	1190	1425	785	305	310	335	215	140	360
2	435	730	1005	1155	1385	695	340	315	280	215	135	380
3	440	790	1085	1045	1270	585	350	275	220	225	125	380
4	400	815	1220	1025	1300	505	290	270	245	240	130	405
5	400	860	1195	1170	1305	495	220	285	310	210	125	390
6	415	915	1125	1185	1200	520	220	305	310	180	125	355
7	460	910	1140	1190	1115	505	235	390	275	165	150	310
8	475	930	1285	1175	1125	470	225	505	270	165	135	325
9	515	960	1290	1140	1100	400	220	505	240	185	115	325
10	510	935	1275	1055	1050	345	250	475	235	180	110	335
11	490	940	1255	1155	1030	345	270	445	245	145	125	370
12	525	955	1215	1165	995	335	220	460	280	135	130	350
13	630	970	1130	1265	940	345	210	425	250	115	190	305
14	675	970	1085	1355	885	305	220	440	210	125	220	270
15	730	895	1160	1350	905	275	210	445	200	130	230	265
16	770	930	1170	1220	940	275	205	405	180	155	205	290
17	770	885	1140	1185	915	305	200	390	185	150	180	280
18	680	920	1100	1215	875	325	185	390	195	135	190	310
19	700	935	1030	1265	830	365	170	385	205	115	180	335
20	750	910	1070	1280	875	390	175	390	215	125	225	355
21	750	830	1115	1275	830	377	175	415	205	130	260	350
22	750	790	1115	1380	845	360	210	435	170	125	270	340
23	775	855	1125	1350	840	355	255	430	175	125	245	335
24	675	910	1110	1170	785	365	345	425	200	150	240	360
25	570	915	1090	1165	840	370	345	450	210	130	230	355
26	625	835	1090	1265	865	390	310	425	240	130	210	335
27	680	755	1080	1325	785	435	285	405	195	140	220	320
28	730	790	1070	1405	760	445	285	385	170	135	280	335
29	770	810	1115	1415		405	305	400	175	130	300	325
30	805	885	1170	1410		355	305	385	195	150	325	325
31	770		1165	1425		335		360		170		
Mean	616	875	1134	1238	1001	412	[illegible]	[illegible]	227	151	196	332
Max. Mean	805	970	1290	1425	1425	785	350	505	335	240	325	405
Min. Mean	400	730	945	1025	760	275	170	270	170	115	110	265
Ac.-Ft.	37874	52086	69749	76106	55567	25213	14955	24446	13527	9570	12030	19983

E – Estimated NR – No Record

Total Discharge in Acre-Feet 411206

TABLE 156

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	74	69	72	77	38	26	19	27	23	22	23
2	23	72	91	74	75	39	26	22	28	25	25	23
3	22	73	97	74	99	39	26	21	24	24	24	24
4	24	79	90	75	68	31	27	21	21	24	24	23
5	26	76	80	73	64	29	29	23	20	18	22	16
6	26	80	73	76	59	30	33	29	19	16	21	16
7	26	75	77	69	58	28	33	33	17	17	19	19
8	26	78	64	79	58	27	33	23	17	19	18	21
9	25	75	56	212 *	63	29	34	18	17	20	16	22
10	25	74	55	82	59	27	34	17	19	20	19	
11	25	78	57	73	60	26	32	17	24	22	24	21
12	30	91	74	80	61	25	32	17	33	22	23	21
13	33	88	181 *	80	62	24	32	19	25	22	27	22
14	32	86	114	77	62	25	31	22	21	20	25	21
15	33	82	72	73	59 *	30	32	21	21	20	21	22
16	33	83	61	89	59	35 *	30	24	20	19	17	24
17	33	83 *	60	51 *	62	43	29	23	17	19	19	25
18	37	80	53	62	63	40	29 *	23	16	22	20	24
19	43 *	79	61	66	61	30	30	22	17	18	21	22
20	44	75	83	65	61	29	28	23	16	19	24	21
21	43	77	83	65	61	31	25	25	17	22	22	27
22	54	74	87	68	63	28	27	25	18	25	21	26
23	65	74	85	67	58	29	27	24	19 *	23	20	25
24	64	74	83	58	57	26	28	24	16	21	20	27
25	74	74	84	53	69	33	22	23	15	20	20 *	26
26	75	78	85	70	46	32	18	22 *	17	18 *	20	23 *
27	77	83	80	72	40	27	18	22	17	18	22	21
28	76	72	79	59	39	27	17	23	15	19	21	21
29	76	71	73	59		26	16	23	15	21	21	22
30	74	69	59	69		27	15	22	18	21	22	21
31	75		58	68		27		23		22	21	
Mean	43.5	77.6	78.2	74.5	61.5	30.2	27.3	22.4	19.5	20.6	1..	.3
Max. Mean	77	91	181	212	99	43	34	33	33	25	27	27
Min. Mean	23	69	53	51	39	24	15	17	15	1[illegible]	16	1[illegible]
Ac.-Ft.	2676	4616	4808	4582	3418	1859	1624	1375	1162	1267	1309	1327

E - Estimated NR - No Record

Total Discharge in Acre-Feet 30020

* Discharge measurement or observation of no flow made on this day

TABLE 157

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT RIVERBANK

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	114	90	78	119	76	60	38	74	34	32	36
2	76	108	105	91	125	75	59	38	75	37	32	39
3	65	107	126	97	158	77	59	38	74	38	35	40
4	62	111	132	97	142	74	58	37	69	39	41	36
5	61	119	127	98	102	63	66	40	63	39	40	37
6	67	112	118	99	90	60	66	48	57	39	43	38
7	68	110	116	98	85	60	74	65	60	41	51	37
8	67	104	113	97	81	57	75	60	57	37	47	32
9	62	105	93	124	80	56	75	45	52	38	43	35
10	58	99	79	223 *	83	55	72	56	60	39	41	35
11	60	97	78	133	91	55	63	93	60	38	41	36
12	61	103	76	110	91	53	65	97	61	33	41	41
13	63	113	115	118	90	53	64	95	59	36	48	37
14	73	113	230	124	88	51	62	97	54	38	49	38
15	67	105	169	120	90 *	62	57	99	52	36	46	32
16	68	100	110	120	91	68 *	61	91	45	35	40	35
17	65	99	84	132 *	91	81	59	95	41	36	38	40
18	68	100	76	92	94	96	54 *	90	43	35	41	41
19	68 *	99	75	95	97	96	48	84	45	33	44	44
20	77	94	84	98	94	77	47	90	42	32	48	41
21	80	91	108	96	94	71	53	92	46	33	49	38
22	82	88	113	100	95	74	57	89	47	31	46	37
23	92	90	114	102	93	73	67	83	42 *	33	44	44
24	105	90	116	98	91	69	62	76	39	37	47	37
25	106	88	115	86	94	69	56	71	40	34	40 *	35
26	116	102	116	111	100	77	51	77	37	31	38	36
27	123	100	117	161	84	78	45	72	40	27	37	36
28	120	97	115	123	78	67	40	72	42	30	41	34
29	118	89	111	101		61	39	72	45	34	46	36
30	121	87	101	123		61	39	72	37	35	41	36
31	116		91	122		64		71		38	35	
Mean	81.4	101	110	112	96.8	68	58.4	72.4	51.9	35.4	42.1	37.3
Max. Mean	123	119	230	223	158	96	75	99	75	41	51	44
Min. Mean	58	87	75	78	78	51	39	37	37	27	32	32
Ac.-Ft	5004	6018	6770	6877	5377	4183	3477	4449	3090	2174	2588	2220

E - Estimated NR - No Record

Total Discharge in Acre-Feet 52230

* Discharge measurement or observation of no flow made on this day

TABLE 158

DAILY MEAN DISCHARGE
STANISLAUS RIVER NEAR MOUTH

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	79	112	168	178	204	93	34	9.2	1.6	5.6	0	0.1
2	144	109	167	169	211	90	0.3	11	11	2.1	0	0.1
3	99	143	164	165	196	65	15	15	11	1.3	0	0
4	82	159	168	170	226	46	4.3	12	1.2	0.8	0	0.1
5	94	177	171	175	218	69	3.7	NR	11	0.6	0	0.1
6	95	187	175	176	186	107	3.1	NR	7.4	0.5	0	0
7	104	182	180	177	172	103	3.1	NR	6.3	0.4	0	0
8	128	175	182	175	164	111	3.9	NR	4.7	0.5	0	0.2
9	67	175	185	174	160	48	1.9	NR	4.5	0.6	0	0.3
10	61	171	181	172	153	45	3.4	6.8	4.3	0.7 *	0	0.7
11	46	170	174	199 *	149	56	6.5	6.8	4.6	0.6	0	0.9
12	55	171	166	214	148	46	3.6	7.4	4.3	0.5	0	1.3
13	45	174	163	190	147	70	1.1	14	4.3	0.5	0	1.6
14	89	172	157	178	147	45	1.2	15	4.5	1.0	0	1.7
15	139	171	193	178	149	52	1.3	16	2.4	0.8	0	0
16	151	168 *	221 *	175	149	66	1.6	15	1.4	1.1	0	0
17	109	167 *	209	174	147	75	0.9	14	1.2	1.6	0	0
18	113	154 *	186	181	144	92	0.7 *	10	2.8	0	0	0
19	91 *	158	175	177	148 *	103	0.7	14	2.5	0	0	2.9 *
20	121	163	163	160	145 *	84	1.2	15	0.8	0	0	3.3
21	124	162	162	160	145	68	1.6	26	0.7	0	0	2.4
22	141	161	170	158	145	54	1.3	42	1.1	0	1.9	2.6
23	131	164	179	157	145	42	6.6	31	1.4 *	0	1.4	2.6
24	109	164	176	155	145	41	7.1	19	1.2	0	1.3	2.9
25	121	164	182	158	138	73	7.5	21	0.0	0	0.9 *	3.6
26	160	165	182	165	139	84	8.2	23 *	0	0 *	0.4	4.0
27	143	167	183	156	119	109	6.6	20	0	0	0.1	3.5
28	151	168	180	198	88	106	6.1	18	0	0	0.4	3.4
29	125	170	184	218		108	10	21	0	0	0.6	3.7
30	126	170	183	187		51	10	16	0	0	0.7	4.1
31	119		182	196		37		13		0	0.4	
Mean	109	164	178	176	158	72.2	5.2		3.9	0.6	0.3	1.5
Max. Mean	160	187	221	218	226	111	34		12	5.6	1.9	4.1
Min. Mean	45	109	157	155	88	37	0.3		0	0	0	0
Ac-Ft.	6668	9749	10930	10840	8781	4441	310		233	38	16	91

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Discharge measurement or observation of no flow made on this day.

TABLE 159

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR VERNALIS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	478	830	1080	1300	1590	860	299	254	335	185	115	335
2	546	810	1130	1260	1570	795	333	263	294	199	89	360
3	542	905	1200	1150	1470	660	336	225	239	194	63	363
4	486	950	1360	1080	1440	534	257	209	239	209	54	394
5	494	1010	1360 *	1230	1490	522	195	225	291	197	54	374
6	506	1080	1310	1270	1330	579	176	251	300	151	65	360
7	546	1080	1260	1280	1230	562	197	347 *	256	125	101	310
8	584	1080	1420	1260	1200	546	203	466 *	248	110	89	304
9	584	1120	1450	1250	1200	446	186	490	237	137	36	314
10	592	1100	1430	1150	1150	350	206	458	211	151	30	324
11	562	1100	1410	1230	1120	350	225 *	406	214	115	50	346
12	579	1110	1370	1290	1070	340	173	434	248	72 *	63	328
13	682	1130	1310	1340	1010	375	147	403	239	59	132	276
14	750	1130	1220	1450	960	316 *	163 *	426	190	57	173	237 *
15	840	1050	1310	1460	945	281	147	438	178	70	190 *	239
16	895	1060	1350	1340	980 *	299	142	392	154	101	178	262
17	890 *	1040	1330	1280	1000	319	145	375	163	101	149	262
18	795	1040	1290	1300	1000	358	106 *	372	175	84	149 *	291
19	765	1070	1190	1360	1000	410	80 *	375	175	36	137	324
20	860	1050	1210	1370	985	446	68 *	386	180	36	163	335
21	865	975	1260	1370	955	406	87	414	173	59	224	335
22	880	925	1270 *	1460	955	375	132	462	146	63	224	328
23	895	955	1280	1450	970	354	179	450	137	57	214	321
24	805	1040	1270	1310	950 *	358	266	438	163	96	204	346
25	660	1050	1250	1230	970	392	296	450	173	65	209	363
26	710	985	1250	1370	990	400	260	450	214	68	194	332
27	790	885	1240	1420	935	478	242	406	180 *	63	194	310
28	835	900	1220	1530	845	486	245	375	146	72 *	248	321
29	880	925	1260	1580		462	254	392	144	61	279	318
30	905	990	1300	1560		372	245	378 *	170	91	296	321
31	890		1310	1560		330		361 *		132	304	
Mean	713	1012	1287	1338	1118	444	200	380	207	104	151	321
Max. Mean	905	1130	1450	1580	1590	860	336	490	335	209	304	394
Min. Mean	478	810	1080	1080	845	281	68	209	137	36	30	237
Ac-Ft.	43820	60250	79140	82290	62100	27290	11880	23350	12320	6380	9260	19110

E - Estimated NR - No Record

Total Discharge in Acre-Feet 437200

* Discharge measurement made on this day.

TABLE 160

DAILY MEAN DISCHARGE
SOUTH SAN JOAQUIN IRRIGATION DISTRICT DRAIN 11 NEAR MANTECA

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	8.3	6.6	2.7	5.8	5.6	9.0	14	17	10	16	12
2	26	8.3	5.9	2.2	6.3	5.4	9.4	15	21	13	14*	9.6
3	26	9.0	3.6	2.1	6.9	4.9	8.8	14	18	24	13	9.6 E
4	24	9.1	4.2	2.1	7.9	4.4	7.3	9.6	17	26	13	9.6 E
5	21	9.4	3.2	2.2	8.8	4.2	9.1	12	18	22	6.7	8.7 E
6	16	9.3	4.2	2.4	8.0	6.3	9.1	12	16	16	8.2	6.3
7	18	9.0	5.1	2.6	7.3	3.9	6.9	13	13	16*	10	4.9
8	16	8.8	4.9	2.6	7.0	2.4	11	10	13	16	9.3	4.6
9	17	8.8	4.9	2.7	6.7	2.4	9.0	17	14*	23	10	5.4
10	13	8.6	4.8	2.8	6.7	2.4	7.0	21	15	21	19	5.7
11	11	8.6	4.6	3.0	6.7	2.4	7.7	17	18	16	15	7.4
12	9.8	8.5	4.6	3.2	6.6	2.2	8.3	12*	18	11	10	5.3
13	9.6	8.3	4.5	3.1	6.7	2.4	11	15	15	11	13	7.6
14	9.1	8.5	4.2	2.9	6.6	2.8	13 *	16	16	14	15	11
15	9.1	8.6	4.2	4.2	7.0	2.8	11	18	20	10	14	9.4
16	8.8	7.9	4.1	5.2	7.3*	3.8	7.3	18	17	9.8	13	9.0
17	9.4	8.2	3.9	4.8	7.2	6.6*	9.4	18	14	14	12	8.3
18	7.3	8.0	3.8	4.8	6.7	6.5	7.2	17	15	12	11	8.0
19	7.0	8.0	3.3	4.7	6.7	6.1	8.3	20	16	9.6	14	7.9
20	9.6	7.9	2.4	4.7*	6.6	5.7	11	22	17	8.8	9.9	7.6
21	10	7.6	1.7	4.7	6.3	5.6	10	21	13	15	6.9	7.2
22	9.8	7.3	1.5*	4.7	6.7	5.7	15	18	12	15	7.3	6.9
23	9.6	7.9	1.5	4.6	6.6	5.6	21	16	11	17	8.3	7.0
24	9.4	7.9	1.6	4.7	6.1	5.6	24	13	11	18	10	7.0
25	9.1	7.7*	1.7	4.9	5.9	6.9	15	16	10	16	11	5.1
26	8.5	7.6	2.3	5.7	5.8	5.7	13	15	14	9.6	11	6.1*
27	8.5	7.4	1.6	5.3	5.7	5.9	14	17	14	7.0	13	6.3
28	8.2*	7.3	1.7	5.2	5.7	6.3	16	18	17	8.3	16*	5.9
29	8.0	7.0	1.9	5.6		6.6	15	14	17	12	17	5.6
30	8.5	6.9	1.8	5.7		7.0	15	15	12	12	18	5.6
31	9.0		2.7	5.9		9.0		14		16	17	
Mean	12.9	8.2	3.5	3.9	6.7	4.9	11.3	15.7	15.3	14.5	12.3	7.4
Max. Mean	35	9.4	6.6	5.9	8.8	9.0	24	22	21	26	18	12
Min. Mean	7.0	6.9	1.5	2.1	5.7	2.2	6.9	9.6	10	7.0	6.7	4.6
Ac.-Ft.	796	487	212	242	373	304	672	967	910	891	757	438

E - Estimated NR - No Record

Total Discharge in Acre-Feet 7049

* Discharge measurement made on this day.

TABLE 161

DAILY MEAN DISCHARGE
FRENCH CAMP SLOUGH NEAR FRENCH CAMP

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	2.9	3.8	3.5	91	1.2	0.9	9.1	0		0	2.1
2	16	2.5*	3.1	3.9	67	1.7	1.6	8.1	0 *		0	0.2
3	25	1.4	6.1	3.5	150 *	3.1*	2.0	10	0		0	0.1
4	11	7.1	8.6	3.0	97	3.8	2.4	12	0		0	1.4
5	3.5	17	4.8	1.6	38	3.2	1.7	8.4	0.1		0	0.3
6	3.2	12	3.5	1.3	19	2.6	1.7	8.0	0		0	0.6
7	2.4	7.3	4.7	2.0	17	1.6	1.2	6.5	0		0	0
8	2.0	6.0	5.0	2.5	11	3.0	0.8	4.3	0		0	0
9	7.4	4.1	4.7	2.3	8.9	3.3	0.9	3.5	0 *		0	0
10	12	2.7*	4.6	3.0	6.7	3.2	3.2	3.4	0	*	0 *	0
11	8.2	4.1	3.2	1.8	5.5	4.2	2.7	5.7	0		0	0
12	5.2	3.1	1.4	1.1	5.0	3.7	4.3	0 *	0	N	0	0
13	2.9	3.7	0.4	0.6	3.6	3.6	15	0	0	0	0	0
14	6.2*	7.0	0.7	0.4	2.9	4.2	18	0	0		0	0 *
15	8.0		0.4	0.2	2.3	6.3	12	0 *	0 *		0	0
16	8.0		0.1	0.1	1.6	5.6	12	0.1	0	F	0	0.2
17	4.8		0.1	1.4	1.0	4.5	11	0.1	0	L	0	11
18	2.9		0	1.0	0.5	2.4	5.7	0.1	0	O	0	16
19	5.7		0	0.7	0.8	1.2	5.6	0.2	0	W	0	16
20	7.0	4.1 E	0	0.3*	0.3	0.7	7.8	0.1	0		0	17
21	3.7		0	0.2	0.2	0.4	11	0.1	0		0	11
22	4.0		0	0.3	0.1	0.7	15	0	0		0	11
23	3.0		0.1	0.2	0	0.8	26	0	0		0	18
24	2.9		0.1	0.1	0	1.3	22	0	0		0	18
25	3.6		0	0.2	0	1.2	13	0 *	0		0	18
26	1.9	1.2	0	4.6	0.7	1.9	9.1	0	0 *	*	0	8.9*
27	3.2	6.7	0.2	83	0.9	2.9	8.1	0	0		0 *	2.3
28	2.6	17	0.1	58	0.8	3.0	7.7*	0	0		0	0.2
29	2.7	8.3*	0.6	27		0.9	8.0	0	0		0	1.8
30	2.0	6.1	3.5*	90		0.5	9.6	0	0		0	6.2
31	1.7		3.2	96 *		0.3*		0 *			1.2	
Mean	6.4	5.5	2.0	12.7	19.0	2.5	8.0	2.6	0	0	0	5.3
Max. Mean	25	17	8.6	96	150	6.3	26	12	0.1	0	1.2	18
Min. Mean	1.7	1.2 E	0	0.1	0	0.3	0.8	0	0	0	0	0
Ac.-Ft.	392	328	125	781	1055	153	476	158	0	0	3	318

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3789

* Discharge measurement or observation of no flow made on this day.

TABLE 1 [illegible]

DAILY MEAN DISCHARGE
SOUTH SAN JOAQUIN IRRIGATION DISTRICT MAIN DRAIN AT FRENCH CAMP

I second-feet

Date	1960			1961								
	Oct	Nov	Dec	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	49 E	1[illegible]	[illegible] E	4.8 E	12 E	6.1	15 E	28	23	25	27	31 E
2	36 E	12	6.6 E	4.6 E	17 E	6.1	18 E	31	31	23	23	38 E
3	30 E	11	5.0 E	4.6 E	20 E	6.1	16 E	30	23	21	23	25 E
4	26 E	13	4.8 E	4.5	15 E	5.7	21 E	33	21	26	23	21 E
5	25 E	17	[illegible] E	4.6	10	5.5	16 E	35	21	22	25	18 E
6	23 E	18	[illegible]	4.5	10	5.2	17 E	34	19	28	25	16 E
7	22 E	13	5.0	4.1	[illegible]	5.2	20	33	23	28	24	16 E
8	[illegible] E	11	[illegible]	4.3	[illegible]	5.2	17	34	31	25	25 E	16 E
9	22	11	5.4	4.3	9.7	7.7	18	31	26	27	20	15 E
10	20	9.8	5.6	4.5	9.0	8.4	21	32	30	18	23	13 E
11	19	11	5.6	4.3	8.4 E	8.6	28	35	30	20 E	20 E	14 E
12	18	14 E	5.2	4.3	7.8 E	8.4	29	25	29	17 E	21 E	11 E
13	17	14 E	5.0	4.5	8.2 E	8.4	25 E	28	31	20 E	26 E	9.2 E
14	17	10	5.0	4.5	8.6 E	8.4	20 E	28	25	23 E	27 E	8.0 E
15	16	7.4 E	4.7	4.3	8.8 E	10	22	29	22	21 E	31 E	5.9 E
16	16	6.9	4.7 E	4.5	8.6 E	8.4	29	25	23	26 E	33	10 E
17	16	6.9	4.8 E	4.3	7.8 E	8.4	31	24	22	25 E	22	11 E
18	16 E	6.4	4.9 E	4.5	7.0	7.8	35	25	22 E	21 E	24	12 E
19	16 E	5.4	4.9 E	4.5	7.0	7.2	34	41	25 E	18 E	24	10 E
20	15 E	5.0 E	4.8 E	4.3	7.2	7.0	27	35	23	19 E	25	10 E
21	15 E	5.1	5.0 E	4.1	7.2	7.0	24	40	26	16 E	29 E	9.9 E
22	14 E	5.5	4.7 E	4.1	7.0	7.9	34	26	23	15 E	28 E	8.6 E
23	14	5.3	4.5	4.3	6.6	7.0	35	25	23	19 E	27 E	8.4 E
24	14	5.0	4.6	4.3	6.5	7.3	30	23	25	21 E	25 E	10 E
25	14	4.8	4.5	8.6	6.5	7.6	38	26	20	18 E	22 E	8.6 E
26	14	7.5	4.5	23	6.3	7.3	32	35	27	18 E	24 E	8.4 E
27	14	4.3	4.4	11 E	6.3	20 E	35	31	23	23 E	25 E	6.6 E
28	14	3.6	4.6 E	7.0 E	6.1	16 E	36	35	22	17 E	24 E	6.5 E
29	13	3.5	4.6 E	10 E		7.4	33	34	21	17 E	22 E	4.6 E
30	12	4.3 E	4.8 E	14 E		6.5	32	24	22	21 E	35 E	5.0 E
31	12		4.6 E	16 E		11		26		27 E	40 E	
Mean	19.1	8.8	4.9	6.3	9.1	8.0	26.3	30.4	24.4	21.5	25.5	12.9
Max. Mean	49	18	6.6	23	20	20	38	40	31	28	40	38
Min. Mean	12	3.5	4.4	4.1	6.1	5.2	15	23	19	15	20	4.6
Ac-Ft.	*1067	523	303	387	504	*452	*1273	*1680	*1210	*946	*1164	*706

E - Estimated NR - No Record

Total Discharge in Acre-Feet [illegible]

* Daily flows includes water diverted by C. L. Anderson.
Monthly totals are actual spill to French Camp Slough.

TABLE 1 3

DAILY MEAN DISCHARGE
DUCK CREEK DIVERSION NEAR FARMINGTON

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				[illegible]	0							
2				[illegible]	44							
3				[illegible]	3							
4				[illegible]	0							
5				0	0							
6				0	0							
7				0	0							
8				0	0							
9				0	0							
10				0	0							
11				0	0							
12	N	N	N	0	0	N	N	N	N	N	N	N
13	0	0	0	0	0	0	0	0	0	0	0	0
14				0	0							
15				0	0							
16	F	F	F	0	0	F	F	F	F	F	F	F
17	L	L	L	0	0	L	L	L	L	L	L	L
18	0	0	0	0	0	0	0	0	0	0	0	0
19	W	W	W	0	0	W	W	W	W	W	W	W
20				0	0							
21				0	0							
22				0	0							
23				0	0							
24				0	0							
25				0	0							
26				0	0							
27				0	0							
28				0	0							
29				0								
30				0								
31				5								
Mean	[illegible]	[illegible]	0	0.2	1.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Max. Mean	0	[illegible]	[illegible]	[illegible]	44			[illegible]	0	0	[illegible]	[illegible]
Min. Mean	0	[illegible]	0	0	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ac-Ft.	[illegible]	0	0	10	93	0	[illegible]	0	0	[illegible]	[illegible]	[illegible]

E - Estimated NR - No Record

Total Discharge in Acre Feet 103

TABLE 164

DAILY MEAN DISCHARGE
LITTLEJOHN CREEK AT FARMINGTON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4				1	0	0	2.0	1.0	3.0	2.0	
2	0.3				62	0	0	0.9	2.0	0.7	2.0	
3	0.3				35	0	0	0.9	0.5	2.0	2.0	
4	0.3				4	0	0	1.0	0.8	2.0	5.0	
5	0.3				6	0	0	2.0	1.0	3.0	0.1	
6	0.3				7	0	0.1	5.0	0.9	8.0	1.0	
7	0.2				6	0	0.2	4.0	1.0	2.0	2.0	
8	0.2				6	0	0.3	3.0	0	0.7	2.0	
9	0.2				6	0	1.0	3.0	0	0.8	1.0	
10	0.1				5	0	2.0	2.0	0	0.6	0	
11	0.1				4	0	0.7	1.0	0.1	0.9	0	
12	0.1	N	N	N	4	0	0.7	1.0	1.0	1.0	0	N
13	0.1	O	O	O	2	0.1	0.6	0.3	0.1	3.0	0	O
14	0				1	0.4	0.8	0	0.5	6.0	0	
15	0				0.3	0.4	2.0	0	1.0	5.0	0	
16	0	F	F	F	0	0.1	1.0	0	2.0	0.1	0	F
17	0	L	L	L	0	0.1	1.0	0	2.0	0.1	0	L
18	0	O	O	O	0	0.1	0.9	0	2.0	0.5	0	O
19	0.4	W	W	W	0	0.4	2.0	0	3.0	3.0	0	W
20	0.6				0	0.1	2.0	0	2.0	3.0	0	
21	0.6				0	0.1	1.0	0	4.0	5.0	0	
22	0.6				0	0	1.0	0	3.0	2.0	0	
23	0.4				0	0	0.1	0.6	2.0	0.6	0	
24	0.3				0	0	0.1	0.2	0.9	0.1	0	
25	0.2				0	0	2.0	0.6	3.0	1.0	0	
26	0.1				0	0	2.0	0.5	2.0	4.0	0	
27	0.1				0	0	3.0	0.2	2.0	5.0	0	
28	0				0	0	3.0	0.7	2.0	7.0	0	
29	0					0	2.0	0.6	0.6	0.1	0	
30	0					0	2.0	0.5	0.9	0	0	
31	0					0		1.0		0.1	0	
Mean	0.2	0	0	0	5	.06	1.05	1.0	1.4	2.3	0.55	0
Max. Mean	0.6		0	0	62	0.4	3.0	5.0	4.0	8.0	5.0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	12	0	0	0	296	3.6	62	62	82	139	34	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 691

TABLE 165

DAILY MEAN DISCHARGE
DUCK CREEK NEAR STOCKTON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.4	0.8	0.7	0	16	0	0	3.4	1.4	2.0	3.5	5.6
2	1.0	0.8	1.0	0	26*	0	0	2.5	1.6	2.5	3.1	4.1
3	0.4	0.5	0.6	0	31 E	0	0	3.3	1.0	2.1	3.2	4.9
4	0.5	0.3	0.3	0	34 E	0	0	2.8	1.1	1.7	2.8	3.7
5	0.2	0.3	0.2	0	24	0	0	3.3	0.8	1.5	4.3	1.9
6	0.1	0.3	0.1	0*	16*	0	0	2.7	1.1	1.6	3.3	2.7
7	0.1	0.2	0.1	0	9.2	0	0*	3.8	0.8	3.2	2.4	5.4
8	0	0.1	0	0	5.9	0	0	4.8	0.8	3.5	2.3	6.4
9	1.4	0.1	0	0	3.2	0	0	3.6	0.5	2.7	1.7	4.7
10	1.7	0	0	0	1.6	0.2	0	7.7	0.7	2.2	2.8	3.0
11	1.6	0	0	0	1.1	0.3	0	6.7	1.2	3.3	2.4	2.3
12	1.8	0	0	0	0.7	0.2	0.1	4.3	2.0	2.1	1.4	4.4
13	1.7	0	0	0	0.6	0.1	0.5	3.4	1.4	1.9	1.8	4.7
14	0.6	0	0	0	0.4	0.2	1.1*	1.5	1.9	1.0	4.7	2.1
15	0.8	0	0	0	0.3	0.5	0.8	1.1	1.5	1.1	4.0	2.4
16	0.4	0.1	0	0	0.3	0.7	1.2	4.2	1.7	1.6	4.8	2.8
17	0.2	0.1	0	0	0.2	0.8*	1.1	2.8	2.3	2.6	5.1	2.6
18	0.1	0	0	0	0.2	0.7	1.8	1.3	1.3	2.3	2.6	2.6
19	0.1	0	0	0	0.2	1.1	3.8	0.7	1.2	2.3	1.8	3.8
20	0.3	0	0	0*	0.2	2.5	3.6	1.2	2.9	1.4	2.4	3.4
21	.4	0	0*	0	0.2	2.2	3.5	1.0	2.2	1.2	1.6	2.5
22	1.3	0.1	0	0	0.2	1.3	2.8	1.4	1.5	4.0	1.6	2.2
23	3.6	0.1	0	0	0	0.3	3.3	1.0	1.7	3.2	2.2	1.6
24	0.3	0	0	0	0	0.1	3.6	1.1	1.5	1.6	5.1	0.7
25	0.	0	0	0	0	0	4.8	0.8*	0.9	1.4	6.1	0.5
26	.4	0.1	0	0.6	0	0.1	4.1	1.6	0.9*	4.6*	4.5	0.8
27	.	0	0	1.1	0	0.7	3.0	1.6	1.4	4.0	4.9	2.6*
28	0.4*	0	0	1.0	0	0.5	2.5	1.5	2.1	2.6	6.3	3.5
29	.4	0	0	1.4		0.3	3.1	1.3	2.0	3.7	4.6*	3.7
30	1.4	0	0	7.3		0.1	1.8	1.1	2.2	2.4	2.8	4.3
31	0.3		0	5.0*		0.1		0.7		4.5	3.2	
Mean	0.8	0.1	.1	0.5	6.1	0.4	1.6	2.5	1.5	2.5	3.3	3.2
Max. Mean	2.4	0.8	1.0	7.3	34 E	2.5	4.8	7.7	2.9	4.6	6.1	6.4
Min. Mean	0	0	0	0	0.2	0	0	0.7	0.5	1.0	1.4	0.5
Ac.-Ft.	46	8	6	33	340	26	92	155	86	152	203	188

E – Estimated NR – No Record

Total Discharge in Acre-Feet 1335

* Discharge measurement or observation of no flow made on this day.

TABLE 1

DAILY MEAN DISCHARGE
[illegible] AT [illegible]

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11					28							
12					29							
13					45							
14					63							
15					57							
16					35*							
17					12							
18					5.0							
19					3.4							
20					2.3							
21					1.3							
22					0.2							
23					0							
24					0							50 E
25					0							52 E
26					0							16 E
27					0							0
28					0							0
29				15 E								0
30												0
31												
Mean	0	0	4.8	7.1	21.4	0	0	0	0	0	0	3.9
Max. Mean					60	0	0	0		0	0	52
Min. Mean	0	0	0	1.0	0	0	0	0		0	0	0
Ac.-Ft.	0	0		436	1187	0	0	0		0	0	234

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3458

* Discharge measurement or observation of no flow made on this day.

TABLE 167

DAILY MEAN DISCHARGE
STOCKTON DIVERTING CANAL AT STOCKTON

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					47							
2					21							
3				0	115				0			
4				0	44				0			
5				0	52				0.7			
6				0	33*				14			
7				0	14				4.2*			
8				0	4.1				6*			
9				0	0.7				28 *			
10				0	0				3.2			
11				0	7.2				1.4			
12	N	N	N	0	10	N	N	N	0.*	N	N	N
13	0	0	0	0	9.9	0	0*	0	0	0	0	0*
14				0	28				0			
15				0	34				0			
16	F	F	F	0	28*	F	F	F	0	F	F*	F
17	L	L	L	0	11	L*	L*	L	0	L	L	L
18	0	0	0	0	2	0	0	0	0	0	0	0
19	W	W	W	0	0 E	W	W	W		W	W	W
20				0	0							
21				0	0							
22				0	0							
23				0	0*				*			
24				0								
25				0								
26				0								
27				0								
28												
29				0								
30				2.9								
31												
Mean				.7	16.							
Max. Mean				20	11.							
Min. Mean												
Ac.-Ft.				41	914	0						

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1183

* Discharge measurement or observation of no flow made on this day.

TABLE 168

DAILY MEAN DISCHARGE
CALAVERAS RIVER AT BELLOTA

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0.6	20				0			
2			0	0.5	30	*			3.7		*	
3			0	0.6	28				52			
4	*		0.1 E	0.6*	34				133			
5			19 E	0.6	20		*		161			
6			27 E	0.6	24				114*			
7			13 E	0.6	30		*		178*			
8			2.9	0.6	29*				177			
9			3.0	0.6	11				165			
10		*	2.7	0.6	0				161			
11			2.3	0.6	0			*	163	*		*
12	N	N	2.3	0.6	0	N	N	N	149	N	N	N
13	0	0	2.2	0.6	0	0	0	0	79	0	0	0*
14	*		2.1	0.7	0				6.7*			
15			2.0	0.6	0				2.2			
16	F	F	1.7	0.6	0	F	F	F	0.4	F	F	F
17	L	L	1.5	0.6	0	L*	L	L	0.1	L	L	L
18	0	0	1.3	0.7	0	0	0	0	0	0	0	0
19	W	W	1.3	0.8	0	W	W	W	0	W	W	W
20			1.3	0.8	0		*		0			
21			1.3	0.8	0				0			
22			1.1	0.8	0				0			*
23			1.2	1.2	0				0			
24			1.0	1.3	0				0			
25		*	0.9	1.4	0				0			
26			0.8	1.6	0			*	0*			
27			0.6	1.5	0				0			
28	*		0.5	1.5	0				0			
29		*	0.5	1.6					0			
30			0.6	8.7					0			
31			0.6	13 *								
Mean	0	0	3.1	1.5	8.1	0	0	0	51.5	0	0	0
Max. Mean	0	0	27	13	34	0	0	0	178	0	0	0
Min. Mean	0	0	0	0.5	11	0	0	0	0	0	0	0
Ac.-Ft.	0	0	188	91	448	0	0	0	3065	0	0	0

E - Estimated NR - No Record
* Discharge measurement or observation of no flow made on this day.

Total Discharge in Acre-Feet 3792

TABLE 169

DAILY MEAN DISCHARGE
CALAVERAS RIVER NEAR STOCKTON

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0							0			
2	0	0			*	*			0		*	
3	0	0							0			
4	0	0					*		0			
5	0	0							0			
6	0	0		*			*		0			
7	0	0							0			
8	0	0							6.2			
9	0	0	*						8.8*			
10	0	0*				*			8.4			
11	0	3.0 E						*	5.2	*		
12	0	8.1 E	N	N	N	N	N	N	15	N	N	N
13	0	3.3 E	0	0	0	0	0	0	5.2	0	0	0*
14	0*	1.0 E							0.4*			
15	0	0 E							0			
16	0	0	F	F	F*	F	F	F	0	F	F	F
17	0	0	L	L	L	L*	L*	L	0	L	L	L
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	W	W	W	W	W	W	0	W	W	W
20	0	0		*					0			
21	0	0	*						0			
22	0	0							0*			*
23	1.8 E	0							0			
24	4.0 E	0							0			
25	1.2 E	0*							0			
26	0	0						*	0			
27	0	0							0			
28	0*	0							0			
29	0	0							0			
30	0	0							0			
31	0											
Mean	0.2	0.5	0	0	0	0	0	0	1.6	0	0	0
Max. Mean	4.0	8.1	0	0	0	0	0	0	15	0	0	0
Min. Mean	1.2	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	14	31	0	0	0	0	0	0	98	0	0	0

E - Estimated NR - No Record
* Discharge measurement or observation of no flow made on this day.

Total Discharge in Acre-Feet 143

TABLE 170

DAILY MEAN DISCHARGE
DRY CREEK NEAR IONE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						9.1	20	12	.0			
2						8.7	17	11	0.7			
3						8.7	15	11	0.5			
4						8.2	14	9.6	0.3			
5					22	9.1	13	8.2	0.3			
6					23	11	11	7.0	0.3			
7					20	16*	9.6	6.0	0.2			
8					460	40	9.6	6.0	0.2			
9					226	22	8.7	5.1	0.1			
10					208	17	8.7	4.7	0.1			
11					125	15	9.1	4.4	0.1			
12					75	31	9.1	3.9	0.1	N	N	N
13					47	217	7.8	3.4*	0	0	0	0
14					33	99	7.8	3.2	0			
15					26	60	7.0	3.2	0			
16					21	40	7.0	3.0	0	F	F	F
17					17	30	7.0	2.6	0	L	L	L
18					19	24	6.3	2.4	0	0	0	0
19					22	20	6.0	2.3	0	W	W	W
20					16	18	5.6*	2.0	0			
21					15	16	5.3	1.8	0			
22					13	14	5.3	1.7	0	*		
23					12	13	7.8	2.0	0			
24					11	12*	13	3.0	0*		*	
25					11	12	11	3.7	0			
26					10	11	9.1	3.2	0			
27					9.6	23	33	2.4*	0			*
28					9.1	40	41	2.1	0			
29					9.1	22	22	1.8	0			
30						20	16	1.5	0			
31						26		1.4				
Mean						29.4	12.1	4.4	0.1	0	0	0
Max. Mean						217	41	12	1.0	0	0	0
Min. Mean						8.2	5.3	1.4	0	0	0	0
Ac-Ft.						1811	720	269	8	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet

Recorder installed February 4, 1960.

* Discharge measurement or observation of no flow made on this day.

TABLE 171

DAILY MEAN DISCHARGE
DRY CREEK NEAR IONE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0.8	6.3	3.6	8.8	3.7	0.3			
2			16	0.9	8.5	3.7	8.0	4.4	0.3			
3			7.4	1.0	11	3.7	7.4	3.8	0.3			
4			3.6	1.0	8.4	3.7	6.6	3.1	0.3			
5			2.5	1.0*	6.4	3.9	6.3	2.8	0.3			
6			1.7	1.0	5.2	4.3	5.7	2.7	0.2			
7			1.4	1.0	5.1	4.8	5.1	3.3	0.2			
8			1.2	1.0	4.6	4.4*	4.9	3.5	0.1			*
9			0.9	1.1	4.9*	4.7	4.5	2.9	0.1		*	
10			1.1	1.1	5.0	5.3	4.3	2.9	0.1			
11			1.5	1.1	7.9	4.9	4.0	3.4	0.1			
12	N	N	1.5	1.1	17	4.7	3.8	3.4	0	N	N	N
13	0	0	1.3	1.1	11	4.4	4.8	3.1	0	0*	0	0
14		*	1.2	1.1	7.5	4.2	4.4	2.5	0			
15			1.4	1.2	7.2	19	3.9	2.1	0			
16	F	F	1.1	1.3	10	29	3.4	1.8	0	F	F	F
17	L	L	1.1	1.4	8.6	62	3.0	1.5	0	L	L	L
18	0	0	1.1	1.4	6.8	39	2.8	1.3	0	0	0	0
19	W	W	1.0*	1.3	6.0	21	2.6	1.4	0	W	W	W
20			0.9	1.4	5.4	23	2.4	1.3	0			
21			0.8	1.3	5.0	20	2.5	1.3	0			
22			0.9	1.3	4.6	15	8.0	1.2	0			
23			0.9	1.3	4.8	17	17	1.1	0			
24			0.8	1.4	4.4	17	14	0.9*	0			
25			0.8	1.7	4.2	26	8.8*	0.8	0			
26			0.9	4.4*	4.1	21	6.3	0.6	0			
27			1.0	5.8	3.9	19	5.3*	0.5	0			
28			1.0	3.9	3.8	19	4.3	0.4	0			
29			1.0	3.5*		15	3.7	0.3	0			
30			0.9	3.5		12	3.4	0.3	0			
31			1.0	5.0		9.6		0.3				
Mean	0	0	1.9	1.8	6.7	14.3	5.7	2.0	0.1	0	0	0
Max. Mean	0	0	16	5.8	17	62	17	4.4	0.3	0	0	0
Min. Mean	0	0	0	0.8	3.8	3.6	2.4	0.3	0	0	0	0
Ac-Ft.	0	0	115	110	372	380	337	124	5	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 1943

* Discharge measurement or observation of no flow made on this day.

TABLE 172

DAILY MEAN DISCHARGE
SUTTER CREEK NEAR SUTTER CREEK

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	10	3.4	7.1	5.7	11	6.5	2.6			
2		0	25	3.4	7.5	5.8	9.6	6.6	2.4			
3		0	16	3.4	11	5.8	9.4	5.6	2.2			
4		0	9.9	3.4	8.5	5.8	8.9	4.9	1.9			
5		0	7.1	3.4*	7.1	6.2	7.6	4.7	1.7			
6		0	6.2	2.6	6.8	9.2	7.4	5.2	1.5			
7		0	5.9	2.7	6.2	11	6.9	6.2	1.4			
8		0	5.6	2.8	6.0	8.8*	7.2	5.7	1.3			•
9		0	6.0	2.8	6.0*	9.4	6.7	5.1	1.3			
10		0	5.6	2.7	5.6	10	6.7	5.3	1.2		•	
11		0	5.4	2.6	13	7.9	6.0	5.9	1.0			
12	N	2.2	5.2	2.7	19	7.4	6.2	6.2	0.8	N	N	N
13	O	6.9	5.2	2.6	12	8.7	7.4	5.5	0.7	O*	O	O
14		11*	4.9	2.8	9.8	6.7	6.8	5.0	0.5			
15		5.3	4.5	3.0	9.2	20	6.2	4.4	0.2			
16	F	3.6	4.5	3.3	13	38	5.6	4.2	0	F	F	F
17	L	3.1	4.7	3.2	11	37	5.3	3.8	0	L	L	L
18	O	4.0	4.5	3.2	10	32	4.9	3.4	0	O	O	O
19	W	5.2	4.2*	3.3	9.8	21	4.5	3.1	0	W	W	W
20		4.1	4.2	3.9	8.8	25	4.5	2.9	0			
21		3.4	4.4	3.7	7.8	21	4.7	2.9	0			
22		3.2	4.5	3.4	6.8	17	10	2.8	0			
23		3.0	4.4	3.6	7.1	16	20	2.5	0			
24		2.7	4.2	3.9	7.1	16	16	2.5*	0			
25		2.5	4.4	3.5	6.4	39	14	2.6	0			
26		26	4.4	5.9*	6.2	26	12	2.4	0			
27		16	4.5	7.0	6.0	22	9.8	2.2	0			
28		8.2	4.0	5.0	5.6	21	8.5	2.2	0			
29		5.9*	3.6	3.9		16	7.4	2.2	0			
30		5.0	3.7	5.1*		13	6.6	2.1	0			
31			3.7	5.8		12		2.3				
Mean	0	4.0	6.1	3.6	8.6	16.1	8.3	4.1	0.7	0	0	
Max. Mean	0	26	25	7.0	19	39	20	6.6	2.6	0	0	0
Min. Mean	0	0	3.6	2.6	5.6	5.7	4.5	2.1	0	0	0	0
Ac.-Ft.	0	241	378	222	477	993	492	252	41	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3096

* Discharge measurement or observation of no flow made on this day.

TABLE 173

DAILY MEAN DISCHARGE
DEER CREEK NEAR SLOUGHHOUSE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0*	53		48	4.0	7.0	1.8				
2		0	81		108	3.8	6.8	2.0				
3		0	19		68	3.8*	5.8	1.9				
4		0	7.7		25	3.6	5.5	1.7				
5		0	4.7		14	3.5	5.2	1.6				
6		0	3.8		11	3.6	4.6	1.5				
7		0	3.1		8.9	3.9	4.3	1.4				
8		0	2.5		7.2*	3.7	3.9	1.3				•
9		0	2.0		12	3.8	3.4	1.2				
10		0	1.9		19	3.3	3.3	1.2				
11		0	2.8		54	3.0	3.0	1.7				
12	N	0	2.8	1.1 E	49	2.8	3.0	1.6	N	N	N	N
13	O	0	2.7		20	2.8	3.1	1.7	O	O*	O	O
14		0	2.3		14	2.8	3.0	1.5				
15		0	2.1		18	166	2.8	1.2			•	
16	F	0	2.4		32	40	2.9	0.9	F	F	F	F
17	L	0	3.1		16	87	2.3	0.7	L	L	L	L
18	O	0	3.0		12	35	2.0	0.5	O	L	O	O
19	W	0	2.7*		8.9	19	1.8	0.6	W	O	W	W
20		0	2.3		7.4	15	1.7	0.5		W		
21		0	1.9		7.2	12*	1.7	0.4				
22		0	1.9		6.6	9.6	2.8	0.3				
23		0	2.0*		6.1	9.9	4.9	0.2				
24		0	2.0		5.6	12	6.2	0.1				
25		0	1.7	1.5 E	5.3	32	4.4*	0.1				
26		7.4	1.7	4.0*E	5.3	19	3.2	0				
27		2.6	1.9	8.4	4.9	14	2.6	0				
28		1.0	1.7*	5.1	4.4	15	2.2	0				
29		0.5	1.6	23		11	1.7	0				
30		0.3	1.4	29 *		8.9	1.6	0				
31			1.2	101 *		7.5		0				
Mean		0.4	7..	6.4	21.4	18.1	3.6	0.9	0	0	0	
Max Mean		7.4	81	101	108	166	7.0	1.0	0	0	0	0
Min. Mean			1..	1.1 E	4.4	3.8	1.6	0	0	0	0	0
Ac.-Ft		.5	443	394	1186	1113	212	55	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 3428

* Discharge measurement or observation of no flow made on this day.

TABLE 174

DAILY MEAN DISCHARGE
DELTA-MENDOTA CANAL NEAR TRACY

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2526	716		0	141	1834	1723	3071	3367	4297	4558	2626
2	2523	716		0	176	1838	1720	2895	3471	4240	4398	2305
3	2318	72		0	284	2043	1720	2794	3240	4046	4337	2296
4	2319	571		0	69	2268	1793	2582	3239	3857	4276	2122
5	2315	57.			69	2483	2006	2684	3367	3853	4211	1946
6	2019	500		0	70	2277	2194	2612	3426*	3741	3983	1949*
7	1767	284		0	105	2329	2584	2608	3482	3682	4156	2197
8	1838	284		0	105	2287*	2577	2537	3582	3835	3897	2199
9	1912	284		0	320	2289	2642	2509*	3585	4135	4161	1950
10	1907*	320		0	382	2268	2807	2509	3490	4143	4166	1946
11	1725	320		0	517	2435	2830*	2576	3493	4150	4159	1769
12	1658	321	N	0	516	2432	2897	2645	3498	4288	3990	1664
13	1657	321	O	0	517	2324	3116	2645	3495	4934	3992	1735
14	1425	321		0	454	2466*	3114	2646	3622	4922	3926	1799
15	1256	321		0	932	2584*	3113	2582	3692	4917	3818	1826
16	1256	320	F	0	1164	2544	3248	2512	3927	4910	3752	1859
17	1258	498	L	0	1163	2422	3114	2522	4161	4412	3781	1956
18	1060	643	O	0	1095	2186	3117	2582	4145	4812	3879	1891
19	1059	607	W	0	1093	1864	3117	2583	4134	4907	3746	2155
20	1059	607		0	1092	1863	3112	2575	4133	4911	3717	2157
21	1058	607		1234	1091	1723	3639	2572	4136	4905	3511	2032
22	1060	535		1626	1094	1722	3642	2575	4243	4820	3379	2028*
23	1029	535		862	1291	1696	4113	2633*	4238	4831	3376	1889
24	963	572		863*	1289	1664	2992	2610	4230	4616	3374	2328
25	789	611		864	1392	1663	2994*	2612	4239	4683	3374*	2019
26	864	611		867	1562	1661	2891	2613	4249	4657	3376	2018
27	862*	608		720	1558	1430	2749	2862	4252	4655	3373	2019
28	862	607		140	1730	1469*	2959	3040	4342	4584	3143	2022
29	862	680		140		1395	2963	3151	4144	4580	2952	2021
30	863	613		140		1396	3058	3364	4491	4570	2979	2018
31	864			141		1290		3368		4558	2872	
Mean	1449	503	0	245	760	2005	2818	2712	3834	4466	3762	2025
Max. Mean	2526	716	0	1626	1730	2584	4113	3368	4491	4934	4558	2626
Min. Mean	789	284	0	0	69	1290	1720	2509	3239	3682	2952	1664
Ac.-Ft.	89120	29900	0	15070	42190	123300	167700	166700	228100	274600	231300	120500

E = Estimated NR = No Record

Total Discharge in Acre-Feet 1488480

* Discharge measurement made on this day.

TABLE 175

DAILY MEAN DISCHARGE
CONTRA COSTA CANAL NEAR OAKLEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144	145	61	58	62	51	55	103	128	159	167	149
2	145	140	61	57	57	51	55	102	130	158	174	141
3	140	135	59	58	56	55	58	108	130	160	176	134
4	131	137	58	57	58	54	60	113	132	155	179	136
5	122	115	57	58	62	54	97	118	137	173	176	141
6	118	117	56	58	65	55	100	119	137	169	173	144
7	118	142	55	57	56	55	77	117	138	174	174	141
8	117	130	50	57	53	53	61	118	138	177	174	142
9	111	130	48	60	53	49	62	124	136	174	174	143
10	112	112	49	62	54	50	112	126	141	178	176	142
11	117	114	48	63	55	50	88	124	137	197	174	142
12	123	98	50	62	54	51	77	124	140	207	169	146
13	121	87	49	65	52	52	92	124	149	205	162	144
14	121	85	51	63	53	53	80	124	159	210	167	149
15	118	91	50	63	51	53	81	126	204	207	163	151
16	117	90	50	62	52	48	77	129	199	206	163	144
17	121	84	50	62	52	50	78	131	194	197	160	140
18	118	77	50	62	50	50	75	136	179	203	159	130
19	118	75	49	62	51	49	80	136	172	206	155	138
20	121	75	49	63	51	51	87	128	173	204	152	142
21	125	73	48	67	52	51	86	126	172	206	150	139
22	122	67	54	62	51	52	83	124	165	202	150	132
23	119	62	57	68	50	52	77	123	160	197	151	132
24	127	54	54	68	51	51	77	131	170	200	155	130
25	129	54	56	60	51	53	83	138	170	198	152	137
26	121	52	58	60	51	54	91	143	171	204	148	140
27	123	53	59	65	51	51	98	136	172	198	147	141
28	127	53	58	63	51	50	103	137	171	200	151	143
29	123	59	59	64		54	105	132	167	199	146	139
30	124	57	57	63		56	103	129	165	184	147	131
31	124		59	64		56		138		184	148	
Mean	123	92.1	53.8	61.7	53.8	52.1	81.9	129	159	190	159.2	140
Max. Mean	145	145	61	68	65	56	112	143	204	207	179	151
Min. Mean	111	52	48	57	50	48	55	102	128	155	146	130
Ac.-Ft.	7570	5480	3310	3790	2990	3200	4880	7710	9390	11680	9940	8340

E = Estimated NR = No Record

Total Discharge in Acre-Feet 78280

TABLE 176

DAILY MEAN DISCHARGE
NORTH FORK TULE RIVER AT SPRINGVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.5	4.5	2.8	4.8	2.8	28	3.8	2.6	1.4	0	0
2	0.1	0.2 *	31	2.7	5.2	2.7	30	5.1	2.6	1.4	0	0.4
3	0.1	0.2	18	2.9	6.4	3.2	36	5.6	2.6	1.1	0	0.6
4	0.1 *	0.6	11	3.0	6.1	3.7	41	5.2	2.5	0.4	0.1	0.3
5	0.1	1.0	7.3	3.4	5.9	3.4	38	4.2	2.1	0.5	0.2	0.3
6	0.1	1.3	5.6	3.4	4.3	9.1	33	5.0	1.8	0.6	0.2	0.3
7	0.1	0.5	5.2	3.3	4.4 *	6.3	27	8.9	1.9	0.9	0.1	0.4
8	0.3	0.3	4.5 *	3.3	5.7	5.9	24	8.7	1.9	0.7	0.2	0.7
9	0.4	0.4	3.9	2.8 *	5.4	4.8	20	7.3	1.8	0.6	0.3	0.8
10	0.2	0.7	3.8	2.8	4.8	4.8	16	5.9	1.8	0.6	0.6	0.5
11	0.1	0.7	3.8	2.9	4.9	3.6	14	5.6	1.4	0.8	0.4	0.3
12	0.1	1.1	3.6	2.9	7.3	3.7	11	6.0	1.5	0.8	0.4	0.2
13	0.1	2.0	3.5	2.8	8.2	4.3	11	6.0	1.6	1.0	0.1	0.1
14	0.1	4.5 *	3.5	2.9	7.3	4.1	9.7	3.9	1.4	1.0	0	0.1
15	0.1	3.7	3.6	2.8	5.8 *	15	7.6	3.0	1.1	1.2	0	0.1
16	0.3	2.3	3.4	3.0	6.9	18	7.3	2.9	1.1	1.1	0	0.1
17	0.2	1.9	3.3	2.9	7.1	17	6.5 *	2.8	0.9	0.6	0	0.2
18	0.1	1.9	3.3	2.2	6.6	17	6.3	3.0	0.9	0.2	0	0.3
19	0.2	2.0	3.3	2.1	6.0	15	6.2	3.8	0.9	0.1	0	0.3
20	0.2	2.1	3.1	2.0	5.7	15	5.4	9.2	1.0	0	0	0.3
21	0.3	2.0	3.2	1.9	5.5	16 *	4.5	9.8	1.1	0	0	0.3
22	0.2	2.1	3.2	2.0	5.4	18	6.4	8.9	1.1	0	0	0.8
23	0.1	1.9	3.1	1.8	4.9	23	8.2	8.1	1.0	0	0	0.9
24	0.5	1.8	3.0	1.9	4.4	28	7.3	6.7	1.0	0.1	0.1	0.8
25	0.4	1.9	3.1	1.8	4.4	33	6.0	5.4	0.9	0	0.4	0.5
26	0.3	3.4	2.7	12	4.0	25	6.8	4.6	1.0	0	0.5	0.3
27	0.6	5.4	2.8	14	3.9	23	6.6	4.3	0.7	0	0.6	0.1
28	0.5	3.9	2.8	6.4	3.0	36	7.6	3.9	1.3	0.1	0.3	0
29	0.5	3.0	2.7	4.5		34	6.3	3.2 *	1.6	0.2	0.2	0
30	0.5	3.2	2.6	4.3		28	5.1	2.6	1.6	0.1	0.1	0
31	0.5			4.2 *		27		2.4		0	0	
Mean	0.2	1.9	5.2	3.6	5.5	14.5	14.8	5.3	1.5	0.5	0.2	0.3
Max. Mean	0.6	5.4	31	14	8.2	36	41	9.8	2.6	1.4	0.6	0.9
Min. Mean	0.1	0.2	2.6	1.8	3.0	2.7	4.5	2.4	0.7	0	0	0
Ac.-Ft.	15	112	321	222	306	893	878	329	89	31	10	20

E - Estimated NR - No Record Total Discharge in Acre-Feet 3...

* Discharge meaaurement or observation of no flow made on this day

TABLE 177

DAILY MEAN DISCHARGE
PORTER SLOUGH AT PORTERVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						NO FLOW						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac.-Ft.												

E - Estimated NR - No Record Total Discharge in Acre-Feet

TABLE 178

DAILY MEAN DISCHARGE
PORTER SLOUGH NEAR PORTERVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1.4	1.6	0							
2		0	0.2	1.3	0.2	*						
3		0	0	0.9	0.5						*	
4		0	0	0.9	0.4			*				
5		0	0	1.3	0							
6		0	0	1.2	0							
7		0	0	1.4	0							
8		0	0	1.0	0							
9		0	0	0.7 *	0							
10		0	0.1	0.4	0							
11		0	0	0	0							
12	N	0	0.5	0	0.8	N	N	N	N	N	N	N
13	O	0	1.7	0	2.6	O	O	O	O	O	O	O
14		0	1.6	0	2.3							
15		0	1.3	0.9	0							*
16	F	0	1.6	1.0	0	F	F	F	F	F	F	F
17	L	0	1.8	0.8	0	L	L	L	L	L	L	L
18	O	0	1.5	0.7	0	O	O	O	O	O	O	O
19	W *	0	1.1	1.2	0	W	W	W	W	W	W	W
20		0	1.2	1.0	0							
21		0	1.2	0.4	0							
22		0	1.1	0	0							
23		0	1.1	0	0							
24		0	0.6	0	0							
25		0	0	0	0							
26		4.5	0.6	1.9	0							
27		1.9	1.9	0	0							
28		2.1	1.9	0	0							
29		1.4 *	2.0	0				*				
30		1.4	1.9	0		*			*			
31			1.7	0								
Mean	0	0.4	0.9	0.6	0.2	0	0	0	0	0	0	0
Max. Mean	0	4.5	2.0	1.9	2.6	0	0	0	0	0	0	0
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft.	0	22	56	37	13	0	0	0	0	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 128

* Discharge measurement or observation of no flow made on this day

TABLE 179

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0						0	0
2					0						0	0
3					0						0	0
4					0						0	0
5					0						0	0
6					0						0	0
7					0						0	0
8					0						0	0
9					0						0	0
10					0						0	0
11					0						0	0
12					0						0	0
13					0						0	0
14	N	N	N	N	0	N	N	N	N	N	0	0
15	O	O	O	O	0	O	O	O	O	O	0	0
16	F	F	F	F	14	F	F	F	F	F	0	0
17	L	L	L	L	21	L	L	L	L	L	0	0
18	O	O	O	O	21	O	O	O	O	O	0	0
19	W	W	W	W	21	W	W	W	W	W	0	0
20					7.9						0	13
21					0						0	19
22					0						0	26
23					0						0	30
24					11						0	30
25					17						0	9.4
26					17						23	0
27					16						35	0
28					4						35	0
29											35	0
30											35	0
31											12	
Mean	0	0	0	0	5	0	0	0	0	0	6	4
Max. Mean	0	0	0	0	21	0	0	0	0	0	35	30
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	297	0	0	0	0	0	347	253

E - Estimated NR - No Record

Total Discharge in Acre-Feet 897

TABLE 180

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO TULE RIVER

In second-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												0
11												0
12												0
13												0
14	N	N	N	N	N	N	N	N	N	N	N	0
15	O	O	O	O	O	O	O	O	O	O	O	0
16	F	F	F	F	F	F	F	F	F	F	F	0
17	L	L	L	L	L	L	L	L	L	L	L	0
18	O	O	O	O	O	O	O	O	O	O	O	0
19	W	W	W	W	W	W	W	W	W	W	W	0
20												0
21												0
22												0
23												0
24												0
25												18
26												27
27												27
28												8.4
29												0
30												0
31												
Mean	0	0	0	0	0	0	0	0	0	0	0	3
Max. Mean	0	0	0	0	0	0	0	0	0	0	0	27
Min. Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	0	0	0	0	0	0	0	159

E - Estimated NR - No Record

Total Discharge in Acre-Feet 159

TABLE 181

DAILY MEAN DISCHARGE
TULE RIVER BELOW PORTERVILLE

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						NO FLOW						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac.-Ft												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 182

DAILY MEAN DISCHARGE
ELK BAYOU NEAR TULARE

In second-feet

Date	19[illegible]			19[illegible]								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						NO FLOW						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac-Ft.												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 183

DAILY MEAN DISCHARGE
CROSS CREEK BELOW LAKELAND CANAL #2

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						NO FLOW						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac-Ft.												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 184

DAILY MEAN DISCHARGE
SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						NO FLOW						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Max. Mean												
Min. Mean												
Ac.-Ft.												

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 185

DAILY MEAN DISCHARGE
KERN RIVER NEAR BAKERSFIELD

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	176	160	219	194	207	166	255	274	240	427	375	[illegible]99
2	221	58	[illegible]37	186	211	171	270	277	280	[illegible]43	372	[illegible]61
3	186	[illegible]57	279	181	221	185	260	275	280	439	350	[illegible]38
4	177	176	245	180	213	193	[illegible]52	271	269	428	340	.53
5	175	239	230	173	205	192	263	274	267	418	343	303
6	191	[illegible]61	231	170	204	180	269	285	267	407	344	314
7	168	293	207	174	206	212	278	285	268	396	327	33[illegible]
8	195	[illegible]47	203	173	203	203	277	273	265	395	330	335
9	178	[illegible]3[illegible]	214	164	197	203	276	274	269	363	331	35[illegible]
10	165	[illegible]00	206	173	197	200	280	273	270	367	335	379
11	163	[illegible]43	213	178	191	[illegible]06	280	279	276	400	366	393
12	178	[illegible]34	214	178	209	214	283	[illegible]85	274	403	411	36[illegible]
13	193	262	[illegible]05	189	214	245	285	283	274	419	[illegible]41[illegible]	[illegible].94
14	195	258	213	182	195	240	[illegible]60	[illegible]82	274	426	[illegible]47	[illegible]20
15	185	249	[illegible]09	182	199	249	277	270	267	419	344	1[illegible]4
16	176	[illegible]3[illegible]	[illegible]0[illegible]	188	19[illegible]	[illegible]42	274	269	295	[illegible]30	[illegible]49	199
17	154	[illegible]35	.11	171	193	[illegible]37	266	270	364	429	339	199
18	150	210	.06	176	185	[illegible]47	[illegible]8[illegible]	[illegible]68	[illegible]56	423	[illegible]41	159
19	[illegible]53	.07	203	175	178	[illegible]24	278	271	346	417	[illegible]28	108
20	[illegible]63	301	196	163	180	[illegible]29	[illegible]80	[illegible]70	344	417	309	13[illegible]
21	[illegible]60	[illegible].73	[illegible].00	168	180	[illegible].40	279	[illegible]67	369	420	[illegible]96	148
22	[illegible]52	[illegible]46	.10	170	181	[illegible].48	281	[illegible]3[illegible]7	[illegible]37	417	[illegible].80	157
23	[illegible]64	[illegible]2[illegible]	191	171	174	[illegible].63	279	[illegible]4[illegible]	[illegible]4[illegible]	41[illegible]	[illegible]8	1[illegible]
24	[illegible]64	[illegible]39	199	17[illegible]	173	[illegible].80	[illegible]74	[illegible]45	410	[illegible]14	[illegible]08	1[illegible]
25	[illegible]64	[illegible]49	19[illegible]	182	175	[illegible].71	[illegible].71	70	423	413	[illegible]63	1[illegible]
26	1[illegible]6	[illegible]74	193	[illegible]10	180	[illegible]26	[illegible]74	[illegible].70	418	410	476	123
27	1[illegible]9	[illegible]39	190	[illegible]4[illegible]9	177	[illegible]45	[illegible]81	266	379	417	333	139
28	1[illegible]9	[illegible]1	185	[illegible]14	169	[illegible]73	[illegible]74	268	387	405	[illegible]85	135
29	1[illegible]1	[illegible]14	179	[illegible]04		[illegible].1	[illegible]78	269	[illegible]95	395	[illegible]88	144
30	1[illegible]1	[illegible]3	17[illegible]	200		[illegible]49	273	273	431	393	[illegible]79	148
31	1[illegible]2		18[illegible]	[illegible]05		[illegible]77		[illegible]69		[illegible]33	[illegible]1	
Mean	17[illegible]	[illegible]0[illegible]	[illegible].0[illegible]	1[illegible]1	[illegible].93	[illegible]8	[illegible].74	[illegible]1[illegible]	[illegible]2[illegible]	[illegible]41[illegible]	[illegible]47	[illegible]0[illegible]
Max Mean	[illegible]1	301	[illegible]7[illegible]	[illegible]3	[illegible].	[illegible]80	[illegible]8	[illegible]8[illegible]	[illegible]431	[illegible]42[illegible]	[illegible]71	[illegible]2[illegible]
Min. Mean	1[illegible]0	167	[illegible]0[illegible]	16[illegible]	169	1[illegible]	[illegible]2[illegible]	[illegible]9[illegible]	[illegible]240	38[illegible]	[illegible]0	1[illegible]
Ac.-Ft.	1[illegible]	1[illegible]0	1[illegible]80	11[illegible]	10740	14[illegible]0	1[illegible]520	16780	12[illegible]0	[illegible]25[illegible]0	[illegible]13[illegible]0	1[illegible]40

E - Estimated NR - No Record

Total Discharge in Acre-Feet 15[illegible]00

TABLE 186

DAILY MEAN DISCHARGE
DEER CREEK AT TERRA BELLA IRRIGATION DISTRICT *

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	19.1	14.5	22.3	17.0	31.0	11.3	7.5			
2		0	24.2	14.5	21.0	16.0	29.5	11.0	10.4			
3		0	30.5	14.5	15.1	15.1	28.5	11.0	10.5			
4		0	30.5	14.5	16.0	16.0	28.0	11.0	11.0			
5		0	28.0	14.5	17.0	17.0	27.5	11.0	10.2			
6		15.2	26.0	13.5	18.0	18.0	27.0	10.5	9.0			
7		18.0	23.0	14.0	18.0	20.8	26.0	13.4	8.4			
8		16.8	22.0	14.0	18.5	20.5	26.0	17.4	7.5			
9		14.8	20.7	14.0	18.5	20.0	25.0	17.5	7.0			
10		13.5	18.8	14.5	18.5	20.0	24.0	15.5	6.2			
11		14.0	18.5	14.5	18.5	19.5	23.2	14.5	5.1			
12		14.0	18.0	14.5	18.5	19.5	22.2	14.0	4.5			
13	N	16.4	17.5	15.0	19.0	19.0	20.8	15.3	4.3	N	N	N
14	O	18.6	17.5	15.0	20.0	18.5	20.0	16.0	3.6	O	O	O
15		19.3	17.5	14.5	20.0	19.7	19.0	15.3	3.4			
16	F	19.2	17.0	14.5	19.5	23.5	18.5	14.0	3.2	F	F	F
17	L	17.5	17.0	13.5	19.0	24.5	18.0	12.5	2.7	L	L	L
18	O	15.1	17.0	13.5	19.0	26.3	16.5	11.0	2.3	O	O	O
19	W	15.1	16.0	13.0	19.0	26.3	14.8	10.5	2.1	W	W	W
20		15.0	15.1	13.0	19.5	24.5	14.5	10.5	2.1			
21		15.2	15.1	13.5	19.0	23.8	14.0	10.0	2.1			
22		15.2	15.1	13.5	18.5	23.5	14.3	9.6	2.1			
23		17.5	15.0	14.0	18.5	22.8	16.3	8.8	2.1			
24		17.0	15.0	14.5	18.0	22.8	17.5	8.4	2.0			
25		18.0	15.0	15.0	18.0	25.7	15.9	7.4	2.0			
26		18.0	15.0	17.9	18.0	28.8	15.0	7.0	1.8			
27		19.2	15.0	29.5	17.5	28.0	14.5	6.2	1.8			
28		18.0	15.0	28.8	17.0	30.6	13.5	6.2	1.6			
29		19.0	15.0	26.0		33.0	13.0	5.5	0			
30		19.0	15.0	24.3		32.8	12.5	5.1	0			
31			14.5	22.5		31.8		5.1				
Mean	0	14.0	18.7	16.2	18.6	22.8	20.2	11.0	4.6	0	0	0
Max. Mean	0	19.3	30.5	29.5	22.3	33.0	31.0	17.5	11.0	0	0	0
Min. Mean	0	0	14.5	13.0	15.1	15.1	12.5	5.1	0	0	0	0
Ac-Ft.	0	830	1147	997	1029	1399	1203	679	271	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 7555

* Data furnished by Terra Bella Irrigation District.

TABLE 187

SUMMARY OF RUNOFF OF DEER CREEK AT TERRA BELLA IRRIGATION DISTRICT *
(Quantities in acre feet)

Season Oct. 1 - Sept. 30	Runoff for the months of												Runoff for the		Year
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Oct. 1 - Sept. 30	Year Jan. 1 - Dec. 31	
1919-20	226	298	625	748	690	3130	5054	2352	677	152	0	0	13,950	14,290	1920
1920-21	189	407	888	998	1575	2868	1462	1496	1244	214	0	0	11,340	11,520	1921
1921-22	143	215	1301	1492	2077	3122	3435	3100	1426	274	0	0	16,590	17,600	1922
1922-23	165	586	1920	1000	1234	1085	4806	2055	963	290	0	55	14,160	12,690	1923
1923-24	257	380	561	667	568	737	1188	335	5	0	0	0	4,698	6,051	1924
1924-25	24	417	1888	1230	2928	2513	3834	2692	1077	251	0	0	17,080	16,170	1925
1925-26	230	576	843	803	1420	897	1478	683	47	0	0	0	6,977	6,984	1926
1926-27	0	914	742	875	3130	4159	2882	1699	730	24	0	0	15,140	15,360	1927
1927-28	98	777	994	855	847	2186	1787	862	55	0	0	0	8,461	7,917	1928
1928-29	0	463	862	793	1113	1914	3207	2039	895	22	0	0	11,310	10,630	1929
1929-30	0	178	467	908	1131	2106	1004	1712	549	10	0	0	8,065	8,588	1930
1930-31	0	458	710	962	995	848	662	324	0	0	0	0	4,959	5,829	1931
1931-32	0	243	1795	1690	4252	2975	2435	3331	1546	461	0	0	18,730	17,460	1932
1932-33	0	179	591	1964	1656	2662	2017	2099	1260	303	0	0	12,750	12,750	1933
1933-34	0	0	770	1004	859	781	445	0	0	0	0	0	3,859	4,155	1934
1934-35	0	341	725	984	1117	2352	4669	2291	577	0	0	0	13,060	13,300	1935
1935-36	0	399	907	1414	8364	3334	3767	2225	1194	286	0	0	21,890	21,740	1936
1936-37	88	381	691	1121	14680	12110	12130	6319	2255	690	246	149	50,860	53,510	1937
1937-38	530	819	2461	1882	4437	14870	10980	10360	4062	1833	807	555	53,600	51,240	1938
1938-39	417	472	561	815	1775	4389	3658	1035	460	226	12	30	13,850	14,180	1939
1939-40	426	490	865	9060	9011	6841	6829	2779	1535	482	12	0	38,330	39,500	1940
1940-41	335	740	1878	2694	7567	6752	6964	5028	2483	1071	454	266	36,230	36,820	1941
1941-42	509	867	2162	3269	2547	3120	3116	2747	1684	448	44	70	20,580	19,970	1942
1942-43	127	773	2021	5282	3560	60250	14410	6563	3068	1813	807	540	99,210	99,660	1943
1943-44	660	1182	1523	2460	3033	4818	3045	3525	2087	843	164	49	23,390	23,710	1944
1944-45	297	1934	1458	1428	9939	10350	8696	5028	3005	1434	608	369	44,546	45,834	1945
1945-46	936	1409	2632	3378	2166	3162	3070	2197	1203	370	0	0	20,523	18,600	1946
1946-47	124	895	2036	1404	1354	1569	1500	690	213	0	0	0	9,785	8,905	1947
1947-48	265	848	1062	872	1040	1762	4180	2062	1169	9	0	0	13,270	12,500	1948
1948-49	60	425	929	1260	1382	2800	2611	1862	526	0	0	0	11,860	12,080	1949
1949-50	30	666	943	1664	3120	1857	2011	1261	268	0	0	0	11,820	22,520	1950
1950-51	30	8433	3874	3224	2758	4356	2660	2749	1329	352	0	0	29,705	22,710	1951
1951-52	0	791	4486	9489	5940	26499	15574	8765	4671	2840	2216	1805	83,080	83,780	1952
1952-53	1315	1760	2904	7795	2478	2995	4100	3604	2319	1204	508	375	31,360	28,800	1953
1953-54	615	1240	1563	2583	3216	3269	3792	2175	1256	208	0	0	19,920	19,360	1954
1954-55	355	977	1530	2357	2662	2167	1762	1808	605	75	0	0	14,300	15,810	1955
1955-56	58	732	3385	21580	4043	3030	3340	3647	1914	722	65	23	42,540	41,040	1956
1956-57	738	772	1167	1264	1618	1842	1594	3195	1459	92	0	0	13,740	14,630	1957
1957-58	685	1164	1713	2179	3291	9507	15779	5783	3211	1544	661	489	46,006	45,530	1958
1958-59	553	1231	1302	1548	1793	1491	816	540	18	0	0	0	9,292	7,203	1959
1959-60	0	313	744	1331	3408	2931	2207	1791	326	0	0	0	13,051	13,971	1960

* Data furnished by Terra Bella Irrigation District.

TABLE 188

DIVERSIONS - SACRAMENTO RIVER
(Sacramento to Verona)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
--TOWER BRIDGE - SACRAMENTO--	0.0														
--OAGING STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L														
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2290	2220	2240	2070	2460	3300	3840	5050	5500	5250	4140	3580	41940
--AMERICAN RIVER--	1.1L														
--BACK BORROW PIT RECLAMATION DISTRICT 1000--	1.3L														
American Home Company	1.45R	1-8"					3	25	36	149	143	59			415
--RECLAMATION DISTRICT 1000 DRAIN (Second Bannon Slough)	2.1L														
Elmer F. Christophel	2.15L	1-18"						17	20	32	39	9	24		141
D. D. Parr	3.15L	1-6"									19				19
Rose Orchard, Incorporated	3.55R	1-16"					2	59	56	64	89	19	56		345
M. Owyang	4.0R	1-10"						NO DIVERSION							
--OAGINO STATION - SACRAMENTO RIVER AT SACRAMENTO WEIR--	4.04														
--OAGINO STATION - SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR--	4.2														
Reese and Oreer	4.65R	1-7"								55	51				106
George W. Reed	5.05R	1-12"						10	136	50	86	64	75		421
Mary S. Seydel Estate	5.25R	1-8"					1		1	1		2	3	2	10
A. R. Merkley	5.3R	1-6"									16	70	12		98
Carl and Ray Casselman	5.5R	1-6"								45	33	15			93
Frank and Ruth Lang	5.55R	1-8"								46	53	18	13		130
Riverside Mutual Water Company	6.1L	2-18"						543	1580	1500	2050	1470	973		8116
--RECLAMATION DISTRICT 1000 DRAIN No. 3--	6.85L														
Fred C. Jones	7.5L	1-8"							42	25	45	52	8		172
A. Marty and C. Inderkum	7.7R	a 1-10"							94	36	89	83	47		349
Candido Rosa	7.8L	1-10"							47	42	41	45			175
E. D. Willey	7.9L	1-10"							92	150	127	25			394
A. Marty and C. Inderkum	8.3R	2-8"						13	42	88	84	53	3		283
Pong Shee Farm	9.3L	1-10"						44	128	171	225	86	101		755
Henry Amen and E. C. Peabody	9.35R	1-14"							295	264	330	268	- 121		1278
Fred C. Jones	9.8L	1-8"								19	16	9			44
Carl Casselman	9.9R	1-12"						NO DIVERSION							
Lloyd M. Robbins	10.25L	1-14"							13	55	51	56	29		204
Thomas M. Erwin	10.65R	1-12"								78	78	141	27		324
Edward Russell	10.75L	1-12"						NO DIVERSION							
W. A. Ten Eyck	11.1R	1-12"						17	34	94	125	83	92	61	506
--ELKHORN FERRY--	11.9														
Woodland Farms, Incorporated	12.0R	4-36"	597					8010	11800	12800	16300	12300	1380	2450	65640
Thomas O'Connor Estate	12.5R	1-12"							38	73	111	66			288
William Plumb, Jr.	12.7R	1-6"							11	61	73	4			149
Lewis Thornton	12.95L	1-4"							1	2	4	2	1		10
S. C. Farms, Incorporated	13.1R	1-12"					1	22	43	284	372	142			864
S. C. Farms, Incorporated	13.25R	1-12"						57	102	116	165	119			559
Elkhorn Mutual Water Company	14.1L	1-24" 1-30"						705	2300	2510	2680	2530	1420	240	12380
Joseph Veress	14.25R	1-14"							246	296	311	186			1039
A. Bianchi	15.1L	1-4"						NO DIVERSION							
W. F. Becker	15.1R	1-16"							350	343	356	358	17		1424
Natomas Central Mutual Water Company	16.0L	1-24" 2-32" 2-38"						4460	8140	6310	9920	8590	3220	173	40810
Hershey Estate	16.27R	1-20"						NO DIVERSION							
Sacramento River Ranch	16.6?R	1-14"						5	97	287	303	202	58		952
Sacramento River Ranch	17.0R	1-14"								138	133	102	8		381
Frank and Ruth Lang	17.4R	1-16"							2	311	60	153			526
Jose Alves and Sons	17.75R	1-16"								388	594	249	7		1238
Jose Alves and Sons	18.0R	1-20"						398	554	727	968	398			3045
H. C. Lauppe	18.2L	2-16"						26	191	264	186	194	43		904
Burton N. Lauppe	18.45L	1-14"							28	106	100	33	10		277
Layton Knaggs	18.7R	1-24"						480	48	8	485	269	396		1686
E. L. Kerns	18.7L	1-12"		52				181	99	219	244	229	99		1093

TABLE 18

DIVERSIONS - SACRAMENTO RIVER
(Sacramento to Verona) (Continued)
November 1960 through October 1961

Water User	Mile and Bank of Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
SACRAMENTO TO VERONA															
Totals			[illegible]7	[illegible]	[illegible]	[illegible]	2467	[illegible]	[illegible]	[illegible]	4064	[illegible]40	[illegible]	6536	189600
Average cubic feet per second			49	50	[illegible]5	[illegible]7	40	[illegible]	496	[illegible]	6[illegible]4	[illegible]5*	[illegible]	[illegible]	.62
Monthly use in percent of seasonal			..5	1.[illegible]	[illegible]	[illegible]	1.[illegible]	[illegible].7	16.[illegible]	[illegible]	[illegible]	[illegible]7.[illegible]	6.[illegible]	[illegible].4	

a A 10" unit replaced the 8" unit.

TABLE 18B

DIVERSIONS - SACRAMENTO RIVER
(Verona to Knights Landing)
November 1960 through October 1961

Water User	Mile and Bank of Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--GAGING STATION - SACRAMENTO RIVER AT VERONA--	13.6L														
--CROSS CANAL RECLAMATION DISTRICTS 1000 AND 1001--	14.6L														
Arthur Drown	*(0.05S)	1-10"						4	[illegible]	159	176	175	114	[illegible]7	734
Natomas Central Mutual Water Company	*(1.0S)	1-24" 1-36"						14.[illegible]	[illegible].9[illegible]	2580	528	[illegible].820	991	169	14150
Natomas Central Mutual Water Company,	*(2.0S)	1-24" 1-24"						[illegible].**	6[illegible]40	4020	5250	6520	1690		26770
B. J. Ukropina	*(3.4N)	2-24"						640	[illegible]86	48[illegible]	447	[illegible]08	1[illegible]		1719
B. J. Ukropina	*(3.45N)	1-16"						[illegible]08	752	840	777	88[illegible]	143		[illegible]60
Roy C. Oberti and Harlan Van Dyke	*(3.45N)	1-14" 1-36"						984	[illegible].32	1800	255	2660	9[illegible]9		11259
--FEATHER RIVER--	20.9L														
--SACRAMENTO SLOUGH--	[illegible]1.[illegible]L														
Sacramento River Ranch	[illegible]1.5R	1-16"							1	73	148	97	71	[illegible]4	44[illegible]
Roy Michelotti	[illegible]2.1R	1-1[illegible]							2[illegible]	46	[illegible]0	58	[illegible]		185
C. Fred Holmes	22.2L	1-14"								165					165
Sacramento River Ranch	22.5R	1-24"									4[illegible]4	265	255	[illegible]9	96[illegible]
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, EAST END--	22.5R														
Anthony Purlan	26.8L	[illegible]-1[illegible]"								61					[illegible]1
A. F. Johnston	26.8L	1-16"						NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, WEST END--	[illegible]7.9R														
Lowell Edson	28.1R(0.4)	1-5"								[illegible].7	[illegible]2	[illegible]6	17		115
Mershey Estate	28.1R(1.3)	1-16"						3[illegible]5	186	[illegible].54	[illegible]*00	[illegible].42	[illegible]9	[illegible]*	19[illegible]
Gus Inglin	28.1R(1.4)	1-16"							[illegible]0	[illegible]**	[illegible]3	[illegible].24	[illegible]*		120
Gus Inglin	28.2R	1-6"								1		1	1		[illegible]
Anthony Purlan	28.2L	1-16"						NO DIVERSION							
Ralph White	28.6L	-6"							60	64	90	45			[illegible]59
Mershey Estate	29.0R	1-16" 2-16"								50	186	155	48		4[illegible]2
Russell Brothers	29.2R	1-16"									146	62	9		16
Sebastian Yturralde	[illegible].9.9L	1-16"							31	[illegible].5	[illegible].6	20	18		12[illegible]
Leo Giovanetti	30.2L	1-6"							[illegible]5	46	[illegible]7	[illegible]8			17[illegible]
G. and D. Tragarza (a)	30.3R	1-[illegible]"								[illegible]4	[illegible].4		[illegible]1		1[illegible]
Anthony Purlan	30.5L	1-14"							[illegible]5	[illegible]2	[illegible]5*	[illegible]55	17		1[illegible]1
M. R. Richardson	30.7R	1-10"						61	[illegible]9[illegible]	411	[illegible]*5	[illegible]78	63		145[illegible]
Albert Nurz	30.75R	1-6"							13	8	17	12	6		5[illegible]
Alice E. West	30.4L	1-6"						NO DIVERSION							
A. C. Nauton, Jr. and Mrs. E. Huston	[illegible]1.5R	1-16"							71	4[illegible]	1.[illegible]	[illegible]4			[illegible]11
M. R. Richardson	[illegible]1.75R	2-14"								43	[illegible]	[illegible]			[illegible]
M. Allen	[illegible]1.L	1-6"						NO DIVERSION							
Sutter Mutual Water Company (Portuguese Bend)	[illegible].0L	1-24" 1-24"						1[illegible]	[illegible]6[illegible]	[illegible].[illegible]0	[illegible].64	[illegible]-[illegible]	[illegible].[illegible]	[illegible]	[illegible].[illegible]
J. P. Waters and E. Purland	[illegible]2.5L	1-[illegible]"							[illegible]0	[illegible]6	[illegible]4	[illegible]0			[illegible]
C Illmers Brothers	[illegible]2.5R	[illegible]-[illegible]"								[illegible]5	[illegible]7	[illegible]-[illegible]	[illegible]		[illegible]2
W. H. Zeigler and N. Carlson	[illegible]3.[illegible]L	[illegible]-[illegible]" 1-[illegible]"						[illegible]1[illegible]	41[illegible]	[illegible].[illegible]	[illegible]5[illegible]	[illegible]64	[illegible].[illegible]1		[illegible]
J. O. Knox	34.35L	1-[illegible]" 1-[illegible]"							[illegible]	[illegible]	[illegible]0	4			[illegible]4
Clarence Du Bois	34.5R	1-[illegible]"						NO DIVERSION							
P.K., G.J., and W. N. Leiser and L. J. Mansager	[illegible]5.6L	b 1-[illegible]"							156	167	[illegible]7	162			[illegible]
Neil Ellis	[illegible]5.8R	[illegible]-[illegible]" [illegible]-[illegible]"						[illegible]	[illegible]4	49	[illegible]4	[illegible]2	41		[illegible]40
--SOUTHERN PACIFIC RAILROAD BRIDGE--	[illegible]7.9R														
VERONA TO KNIGHTS LANDING															
Totals			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible].2	16.1	1[illegible]7	1[illegible]23	1[illegible]4	6[illegible]	4	R 350
Average cubic feet per second			[illegible].28	[illegible].[illegible]4	[illegible].[illegible]4	[illegible].[illegible]4	[illegible].[illegible]4	[illegible].47	[illegible].	[illegible].	[illegible].	[illegible].	[illegible].[illegible]4	[illegible]	11
Monthly use in percent of seasonal			3.7	[illegible]3.[illegible]	[illegible]3.[illegible]	[illegible]3.[illegible]	[illegible]3.[illegible]	18.[illegible]	[illegible].	[illegible].	[illegible].	[illegible]7.[illegible]	[illegible].	[illegible].	

* Mile 13.6L Cross [illegible] Drainage Ditch and Bank are shown in parentheses.
a New installation in 1961.
b A 16" unit replaced the 14" in 1959. It is currently used as a 14" unit in 1959 and 1960.

TABLE 190

DIVERSIONS - SACRAMENTO RIVER
(Knights Landing to Wilkins Slough)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--	34.0L														
--KNIGHTS LANDING BRIDGE--	34.1														
--COLUSA BASIN DRAIN--	34.15R														
E. E. Nuttall	34.15R (0.2)	1-6"					1			2	16				19
River Farms Company	34.5R	1-16" 1-20" 1-24"						801	480	973	1070	483			3807
Wallace Ernst and A. Johnson	34.85L	1-8"										98			98
Walter Raymond	35.2L	1-12"							52	71	109	147			379
Johnson and Anderson	35.8L	1-10"						13	1	13	18	24	11		80
J. Goffitzer	35.85L	1-6"							3	11	9	6	3		32
Frank Rossi	36.2L	1-12" 1-14"						132	326	345	409	359	97		1668
Earl N. Gray	36.45L	1-12"						12	83	157	123				375
A. Moroni	36.8L	1-6"						NO DIVERSION							
--RECLAMATION DISTRICT 787 DRAINAGE PLANT--	37.0R														
Albert Nuttall	37.2L	1-14"							56	99	154				309
Naybelle J. Bundock	37.75L	1-8"								40	34	27			101
Robert and Eugene Reel	38.4L	1-10"							28		30	12			70
C. L. Reel	38.8L	1-10"							76		72	51			199
C. L. Reel and Sons	39.4L	1-10"								35	67	72	49		223
C. L. Reel and Sons	39.8L	1-10"						NO DIVERSION							
William Duffy, Jr.	39.9L	1-8"									59	31			90
Sutter Mutual Water Company (State Ranch Bend)	40.6L	2-24" 1-36"						3790	5890	5770	6020	6360	1760	86	29680
River Farms Company	41.0R	1-14" 1-16"							248	169	112				529
Buell Ranch	41.0L	1-6"						NO DIVERSION							
Mrs. N. Lorenzetti	42.2L	1-6"						NO DIVERSION							
Mrs. N. Lorenzetti	42.3L	1-8"							60	39	23	35			157
El Dorado Ranch	42.3R	1-14" 1-16"	412						422	464	648	385	224	305	2860
El Dorado Ranch	43.1R	1-12"						NO DIVERSION							
Reclamation District 2047	43.1R	3-50"						8090	14100	14600	15600	15600	3880		a 71870
Kramer Ranch	43.1L	1-12"								184		82			266
Bill Erdman	43.4R	1-10"									199	138			337
--RECLAMATION DISTRICT 108 DRAINAGE PLANT--	44.0R														
John Clauss	44.2L	1-18"						223	665	798	900	743	53		3382
John Clauss	45.6L	1-14"						129	116	101	625	74	305		1350
--GAGING STATION - SACRAMENTO RIVER ABOVE R. D. 108 DRAIN PLANT--	46.4														
John Clauss	46.45L	1-16"						NO DIVERSION							
J. R. Henle	46.5L	1-14" 1-20"						109	222		89				420
Mary Hiatt Properties, Incorporated	48.7L	2-22"							851	1020	1490	1150	627		5138
O. J. Hiatt	49.0L	1-14"						12	48	253	60	301	121		795
O. J. Hiatt	49.7L	1-14"						13	359	362	354	395	165		1648
Reclamation District 108 (Tyndall Mound)	51.1R	b 1-16" b 1-18" 2-24" 1-36"						887	5260	4850	4340	3990	1220		20550
William Crawford	51.2L	2-16"						347	759	649	724	731	191		3401
Fritz Erdman	51.9R	1-12"							74	73	73				220
Thomas Nelson	52.0L	1-16"							132	142	25	114			413
George Van Ruiten	52.3L	1-10"								43	43	73	9		168
George Van Ruiten	52.9L	1-12"									122	116	66		304
Reclamation District 108 (Howell Point)	53.8R	1-14" 1-20" 1-36"	478					373	504	980	823	1160	278	7	4603
George Van Ruiten	53.9L	1-14"									133	28	18		179
Broomieside Farms	55.1L	1-26"						21	70	177	424	208	112		1012
Broomieside Farms	56.3L	1-16"						NO DIVERSION							
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22" 1-36"	382				86	1490	3290	3200	3550	4100	863	243	17200
Jacob Miller	56.65R	1-12"						NO DIVERSION							
Broomieside Farms	56.95L	1-20"	169	499					399	158	658		43		1926
L. M. Miller	57.0R	1-10"						NO DIVERSION							
William Crawford	57.25L	1-24" 1-30"						1510	2160	2820	2800	3090	2310		14690

TABLE 190

DIVERSIONS - SACRAMENTO RIVER
(Knights Landing to Wilkins Slough) (contd.)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
Clifton Lamb	57.5L	1-16"		397	115										512
Maud Neilson	58.3L	1-14"							58	159	75	144	94	24	554
Alex Grant	58.9L	1-16"						NO DIVERSION							
Reclamation District 108 (South Steiner Bend)	59.15R	1-10" 1-16"	697					38		60	423	395			1613
Lamb Brothers	59.8L	1-14"						NO DIVERSION							
W. A. Larner	60.4L	1-14" 1-16"						79	661	792	901	656	321	19	3429
L. A. Butler	60.5L	1-12"								211	112	48			371
Reclamation District 108 (North Steiner Bend)	61.3R	1-16"								29	42	31			102
Richard Moore	61.5R	1-12"							74		54	75	65		268
L. A. Butler	61.8L	1-12"								78	60				138
Wayne Hine	62.3R	1-10"						3	61	57	78	68	37	7	311
John Mack	62.3L	1-14"							349	381	457	448	139		1774
Jake Locvich Estate	62.6R	1-10"								52	27	5	12	9	105
KNIGHTS LANDING TO WILKINS SLOUGH Totals			2138	896	115		87	18070	37940	40420	44230	42050	13070	700	199700
Average cubic feet per second			36	15	2		1	304	617	679	719	684	220	11	276
Monthly use in per cent of seasonal			1.1	0.4	0.1		0	9.0	19.0	20.2	22.2	21.1	6.5	0.4	

a Includes 20330 acre feet of water delivered to River Farms Company as follows: April 2690, May 4010, June 3880, July 4520, August 4260, and September 974.

b One 16" unit and one 18" unit were installed in 1961.

TABLE 191

DIVERSIONS - SACRAMENTO RIVER
(Wilkins Slough to Colusa)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	
--GAGING STATION - SACRAMENTO RIVER BELOW WILKINS SLOUGH--	62.9R														
Reclamation District 108 (Wilkins Slough)	63.2R	5-42" 1-48"					873	17400	23600	20900	23600	21300	7310		115000
R. L. Young	63.3L	1-12"							13	1	118	96	27		255
Capaul Brothers (a)	63.65L	1-8"								12	123	10	40		185
Sutter Mutual Water Company	63.75L	6-42" 2-48"						24100	43300	39400	43400	42200	17700	3750	213800
Robert E. Seamans	63.9L	2-14"						200	432	351	691	442	105		2221
--TISDALE WEIR RECORDER STATION--	64.2L														
Lloyd, Beverly and Fred Durst	64.3R	1-14"							70		86	36	81	23	296
Frank Lamb	64.35L	1-14"							65	20	101	45			231
Tisdale Irrigation and Drainage Company	64.4L	1-8" 1-12"						81	126	421	530	454	103		1715
Van Horn Ranch	64.9R	1-14"						NO DIVERSION							
Fred Schohr	65.6R	1-16"							62		164	47			273
Walter Ettl	65.7L	1-8"								126	141	129	11		407
J. L. Browning	66.4R	1-18"						444	686	845	757	752	140		3624
Tisdale Irrigation and Drainage Company	67.1L	1-16" 1-22"						416	1300	1310	1840	1610	545		7021
Newhall Land and Farming Company	67.5L	1-12" 2-24"						913	2010	2960	3440	2230	635		12190
--RECLAMATION DISTRICT 70 DRAINAGE PLANT--	68.8L														
Meridian Farms Water Company #5	68.8L	1-24"						NO DIVERSION							
J. L. Browning	69.0R	1-14" 1-22"						NO DIVERSION							
C. Yerxa and A. Andreotti	69.2R	1-10" 2-16"						440	459	850	969	866	568	88	4240
--EDDY'S FERRY SITE (GRIMES)--	69.45														
J. E. Hollenbeck	69.8R	1-4"						NO DIVERSION							
Tuvrie Kilgore	70.0R	1-12"								85	254	159			498
N. F. Daly	70.4L	1-10"							21	33	51	24	23		152
Beckley, Ritchie, Poundstone and Andreotti	70.4R	1-16" 1-20"						NO DIVERSION							
Meridian Farms Water Company #4	71.1L	1-24"						879	1400	1380	1560	1650	710	38	7617
A. B. Armstrong	71.9R	1-14"						37	86	127	106	112	49	27	544

TABLE 191

DIVERSIONS - SACRAMENTO RIVER
(Wilkins Slough to Colusa) (contd.)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct	
H. and A. Andreotti	72.1L	2-14"						349	245	494	834	669	546		3137
C. T. Proh	73.6R	1-10"	10						42		318	125	39	71	605
Meridian Farms Water Company #3	74.8L	1-18"						410	1010	925	1130	1100	204		4779
Richard Moore (b)	75.3R	1-10"									20	18	6		44
J. H. Yates Estate	76.1L	1-10"							67	121	11	90		46	335
Robert Chesney	76.15L	1-10"						NO DIVERSION							
M. S. Davis and C. K. Anderson	76.2L	1-8"								27	2	29			58
Steidlmayer Brothers	76.5R	1-16"								201	77	151	81		510
Olive Percy Davis, et al	77.8R	1-12"	2						337	411	417	97			1264
R. X. Ranch Company	77.9L	1-16"							237	45	283	20	2		587
Olive Percy Davis, et al	78.15R	c 2-30"	196					2060	2270	2770	3440	2300	574		13610
Olive Percy Davis, et al	78.75R	2-12" 1-16"						153	345	491	584	481	489		2543
Olive Percy Davis, et al	78.8R	1-24"						1350	2320	402	803	2170	72		7117
Steidlmayer Brothers	78.9R	1-12"						80	122	114	115	129			560
C. E. Reische	79.0L	1-10"						6	65	65	60	32			228
Gerrans Orchard	79.3R	1-10"								31	50	1	7	20	109
J. J. Hankins	79.5L	1-8"						1	2	37	29				69
A. M. Wood	79.7L	1-10"								33	14	17			64
--GAGING STATION - SACRAMENTO RIVER AT MERIDIAN--	79.8S														
Meridian Farms Water Company #1 and #2	80.0L	1-10" 1-20" 1-24"						2640	3750	4240	4300	4460	1260		20650
Gerrans Orchard	80.3R	1-8"	19				1	31	6	42	75		2	30	206
Tomlinson Brothers and E. J. Burrows	81.5L	1-16"								37	2	19			58
Tomlinson Brothers	81.8L	1-16"						11	697	716	695	722	384		3225
F. T. Reische and L. P. Wood	82.5L	1-12"							18	1	18	12	1		50
Emerson Nixon	82.7L	1-16"									63	41	40		144
Steidlmayer Brothers	83.0R	1-20"	14					93	93	716	224	447	374		1961
J. E. Clark	83.3L	1-14"							7		36	16	13		72
J. E. Clark	83.5L	1-10"						NO DIVERSION							
--BUTTE SLOUGH OUTFALL GATES--	84.0L														
Steidlmayer Brothers	84.0R	1-8"						NO DIVERSION							
Reclamation District 1004	85.3L	1-8"						3	17	3	14	14			51
Steidlmayer Brothers	85.6R	1-12"								72	163	88	49		372
A. C. and W. G. Reichel (d)	85.8L	1-10"							218	243	262	235	222		1180
Lydell Pack	86.1L	1-8"							43	55	40		3	39	180
W. H. Halsey	86.1R	1-12"						68	26	110	61	56		40	361
Howell Davis	86.2R	1-18"							63	92	260	133			548
Sciortino Brothers	86.8L	1-8"						15	11	45	70	12	21		174
Kathleen Wilbur	86.9R	1-10"						38	125	100	107	20		24	414
Kathleen Wilbur	87.4R	1-10"						21	21	40	44	10	5	19	160
W. H. Halsey	87.45L	1-6"						2		11	17				30
Mrs. D. Locvich	87.6L	1-8"						10	10	9	10		9		48
Swinford Tract Irrigation Company	87.7R	1-12"							67	94	92	46			299
Frank Azevedo	88.0R	1-6"								9	5				14
Amy K. Lange	88.2R	1-2"						NO DIVERSION							
Nagel and Locvich	88.2L	1-10"							35	38	37	2	11	3	126
Mayfair Farms Incorporated	88.7L	1-14"							190	124	76	9		67	466
Colusa Irrigation Company	89.2R	1-20"							377	190	327	95	42		1031
Grace S. Arnold	89.24L	1-8"					1	26	55	74	67	16			239
Reclamation District 1004	89.25L	1-18"	742	2				130	806	781	812	826	21		4120
W. H. Halsey and M. Yerxa	89.26L	1-12"	310					110	171	88	196		72		947
WILKINS SLOUGH TO COLUSA Totals			1293	2			875	52520	87500	82920	94190	86870	32600	4284	443000
Average cubic feet per second			22	0			14	883	1423	1394	1533	1413	548	70	612
Monthly use in per cent of seasonal			0.3	0			0.2	11.9	19.7	18.7	21.2	19.6	7.4	1.0	

a Formerly listed as Meister Ranch.
b Formerly listed as L. B. Westfall.
c One 30" unit was added in 1961.
d Formerly listed as Clifford Reichel.

TABLE 192

DIVERSIONS - SACRAMENTO RIVER
(Colusa to Butte City)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
--COLUSA BRIDGE - GAGING STATION - SACRAMENTO RIVER AT COLUSA--	89.4														
D. Boggs	89.7L	1-16"								18	149				167
Roberts Ditch Company	90.7R	1-18"						145	597	741	782	688	133	30	3116
I. G. Zumwalt Company	91.0R	1-6"						NO DIVERSION							
Paul R. Westfall	91.1L	1-3" 1-8"							14		19				33
I. G. Zumwalt Company	91.6R	1-12"							64	29	46		21	37	197
--COLUSA WEIR RECORDER STATION--	92.4L														
Andrew Martin	92.5L	1-8"							78		39	36			153
W. H. Halsey	92.6R	1-8"							11	9	7	6			33
W. H. Ralsey	93.0R	1-8"							22	21	4	15			62
Wilson Lovvorn	93.15R	1-24"					26	475	1290	1240	1270	1190	125		5616
Paul R. Westfall	93.2L	1-3"								2	10				12
Paul R. Westfall	93.6L	1-3" 1-10"							23	16	13		1		53
Tuttle Land Company	94.3R	1-20"	24					81	244	123	266	96	1	20	855
Roger Wilbur	95.25L	1-12" 1-18"						788	970	1020	1180	591		282	4831
Azro N. Lewis Estate	95.6L	1-16" 1-20"	332	227				87	538	620	706	691	133		3334
J. G. Griffin	95.75L	a 1-16"								8	8	297	148		461
J. O. Griffin	95.8L	1-26"						41	982	318	1160	339	103		2943
Robert Hunter and A. L. Scott, Jr.	95.85L	1-18"						21							21
I. G. Zumwalt Company	96.8R	1-15"							270	123	272			223	888
N. Heitman	97.7R	1-14"	19					19	53	44	97	105	9		346
Rio Bonito Farms	97.75L	1-6"							49	77	51	11			188
Rio Bonito Farms	98.0L	1-10"								9		9			18
Roger Wilbur	98.3R	1-10"						47	43	30	67	59		47	293
Otterson and Boggs	98.6L	1-15"						52	457	511	458	314	15		1807
Elizabeth Reimer (b)	98.7L	1-4"								20	36	9			65
D. Boggs	98.8L	1-18"						7	140	30	37	58	50	2	354
Elizabeth Reimer	99.0R	1-14"							163	159	23	134			579
J. E. Boggs	99.1L	1-16"						14	43	4	60	17			138
Hollis Sartain	99.25L	2-16"	263	363				18	810	352	645	442	83	197	3173
L. W. Seaver	99.3R	1-10" 1-12"							102	189	277	140	50	3	761
Helen Forry	99.8L	1-16"	1	1				305	105	800	601	603	133		2549
Saint Patrick Home Ranch	101.1R	1-20"							111	213	145	136		63	668
Jane Foster Carter	101.8L	1-14"							52	362	361	284	20		1079
Ralph D. Westfall and Mary Westfall Noonan (b)	102.5L	1-16"								59	99	139	23		320
Guy M. Morse	102.8R	2-12" 1-20"						1010	1470	1310	1530	1290	241		6851
C. B. Carter	102.9L	1-16"						8	261	288	321	294	53	1	1226
--GAGING STATION - SACRAMENTO RIVER OPPOSITE MOULTON WEIR--	103.3														
--MOULTON WEIR RECORDER STATION--	103.6L														
Charles W. Welch	103.7R	1-16"						NO DIVERSION							
Maxwell Irrigation District (c)	103.8R	2-20" 1-24"						230	631	642	662	593	118	4	2880
C. W. Tuttle	103.9R	1-12" 1-18"	9				23	674	399	734	1060	907	11		3817
I. G. Zumwalt Company	104.8L	1-12"						51	51	61	56		2	60	281
I. G. Zumwalt Company	105.3L	1-12"						NO DIVERSION							
Lawrence Boyd	105.5L	1-10"							9	3		10	4		26
Thousand Acre Ranch (H. W. Keller)	106.0R	1-14"						167	256	188	271	159	141		1182
Olive Percy Davis, et al	106.5R	2-16"						114	224	226	227	214	47	29	1081
Princeton Ranch Company	110.0R	1-12"							118	127	157			110	512
H. Womble	110.1L	2-16"						NO DIVERSION							
I. G. Zumwalt Company	110.7L	1-3" 1-12"							52	51	52		51		206
--PRINCETON FERRY--	112.0														
I. G. Zumwalt Company	112.05L	1-12"							45	15	27			21	108
Reclamation District 1004	112.1L	2-30" 1-50"	691					4760	11800	9600	11800	11300	2830		52780
Princeton-Codora-Glenn Irrigation District	112.4R	3-24"						3580	4240	4390	5480	4600	277		22570

TABLE 192

DIVERSIONS - SACRAMENTO RIVER
(Colusa to Butte City) (contd.)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
I. O. Zumwalt Company	112.6L	1-10"							136	66	128			44	374
Emerson P. Estes	114.9R	1-5"						NO DIVERSION							
Mark Munson	115.3R	1-4"						NO DIVERSION							
Opal L. Cushman	115.5L	1-12"						21	29	45	62	29	24	5	215
COLUSA TO BUTTE CITY Totals Average cubic feet per second Monthly use in per cent of seasonal			1339 23 1.0	591 10 0.5			49 1 0	12720 214 9.8	26950 438 20.9	24890 418 19.3	30850 502 23.9	25800 420 20.0	4847 81 3.7	1178 19 0.9	129200 178

a Replaces a 15" unit.

b New installation in 1961.
c Formerly listed as Charles W. Welch

TABLE 193

DIVERSIONS - SACRAMENTO RIVER
(Butte City to Red Bluff)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.	
--BUTTE CITY BRIDGE--	115.8														
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L														
Mark Munson	115.8R	1-4"								2	1				3
P. A. Brown	115.85L	1-14"							85	68	65	61	22		301
Victor Trubowitch	115.9R	1-6"						NO DIVERSION							
Manuel Torres	116.37L	1-12"						NO DIVERSION							
Cronin Estate	116.9L	1-16"						NO DIVERSION							
Victor Trubowitch	117.1R	1-10"						9	51	16	43	19			138
W. P. Wright, Jr.	117.5R	1-6"						3	27	49	43	8	1	13	144
W. N. Stewart, Jr.	120.3R	1-10"									19	8			27
Robert T. Millar	122.3R	1-10"						NO DIVERSION							
Ben Oiesbrecht	122.9R	1-10"						NO DIVERSION							
Clarence Reed	123.7R	1-6"						NO DIVERSION							
P. K. Friesen	123.8R	1-4"								1		1			2
Princeton-Codora-Glenn Irrigation District	123.9R	5-24"					343	7220	9580	8520	9600	9430	4150	1926	50760
Provident Irrigation District	124.2R	2-24" 1-36" 2-46"	106	2040				5640	4220	4960	7040	3640			27650
J. Bertapelle	124.3R	1-12"	20					178	225	224	272	213	155	107	1394
Abe Oiesbrecht (a)	125.5R	1-10"							17	19	4				40
Duard F. Oeis	128.3R	1-6"							40	25	50	30			145
P. S. Reager, Jr.	130.75R	1-8"							57	47	81	63			248
--GAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R														
Harry E. Nichols, Jr.	133.45L	1-6"								87	104	65	40		296
Harry E. Nichols, Jr.	133.5L	1-5" 1-6"								4	2	13	11		30
--STONY CREEK--	138.0R														
--BIG CHICO CREEK--	141.5L														
M & T Incorporation and Parrott Investment Company	141.5L	1-20" 4-24"	9	105	128	50	34	289	2040	2510	3720	4370	2810	277	b 16940
Fred Wagner	141.5L	1-4"						NO DIVERSION							
--OLD CHICO LANDING RAILROAD BRIDGE SITE--	142.1														
Paul E. Arneberg	142.8R	1-14"						156	120	2	90	87	15		530
Leonard Morning	143.6R	1-10"	6						9	14	10	22			61
Levi Bentz	143.8L	1-6"								37	64	38	22		161
Glenn Beagle	146.3L	2-6"							6	16	33		6	3	64
Leonard Morning	146.8R	1-10"							19	15	26	9	3		72
Holly Sugar Corporation	148.9R	1-2" 1-10"						NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)--	149.5L														
James Rolph III	149.5L	1-12"						1	39	132	154	170	89	29	614
J. A. and A. E. Lewis	149.7L	1-12"							93	51	110	111			365
James A. Lewis	150.0L	1-10"							43	22	60	45	35		205
V. O. Strain	150.8R	1-12" 1-16"							271	338	435	529	766	47	2386
Joe E. Johnson	152.2R	1-6"	3						9	10	11	6	1	3	43

TABLE 193

OIVERSIONS - SACRAMENTO RIVER
(Butte City to Red Bluff) (contd.)
November 1960 through October 1961

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Robert Edwards	152.4R	1-6"						NO DIVERSION							
Bowers Ranch	153.5L	1-8"							24	22	29	31			106
Mrs. Guy N. Boone	154.5R	1-8"							42	24	53	36			155
Jessie and McClain	154.6R	1-5"							2	10	6				18
S. G. Spang	154.7R	1-4"							4	2	2	2			10
Jacinto Irrigation District	154.75R	1-36" 1-48"	4100					7790	9670	9130	10100	9990	8950	9640	69370
Glenn-Colusa Irrigation District	154.8R	4-44" 1-54" 4-66" 3-72" 1-100"	13700					95100	139000	128000	142000	130000	60000	34700	c742500
Adrian Otten	155.6R	1-4"							11	13	12	10	6	2	54
R. Phieffer	155.7R	1-2½"						NO DIVERSION							
F. Williams	156.0R	1-6"						9	8	6	14	12	1	1	51
N. N. Penner	156.1R	1-6"						24	29	32	48	46	24	15	218
O. L. Shearman	156.85R	1-3"					2		2	4	3	2	1	1	15
Taresh Ranch	158.8R	1-10"	40					23	165	84	210	117	182		821
Jonathan Garst	161.0L	1-4"						NO DIVERSION							
Jonathan Garst	161.45L	2-8" 1-14"						3	36	178	340	307	64	29	957
Clinton Gano (d)	161.5L	1-4"							23	39	39	42	9		152
Jonathan Garst	161.7L	1-2"						1							e 1
Lloyd Hygelund	165.4L	1-14"						NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER AT VINA BRIDGE--	166.5R														
E. L. Dietz	166.7R	1-3"						NO DIVERSION							
Russell L. Deckman	166.8R	1-2"								1	2	3	2	1	9
Ernest Peterson	166.9R	1-6"						4	12	17	24	22	12	13	104
A. J. McPadden	168.5L	1-8"							6	35	54	48	34		177
C. P. O'Connor	168.85R	1-10"					14	29	35	4	38	14	26	3	163
C. F. O'Connor	168.9R	1-6"											1		1
Rumiano Brothers	169.8L	1-10"					12	111	78	117	89	32	22	23	484
Moritz Thomsen	173.05L	1-8"					20	103	86	106	62	29	34	35	475
Dr. O. T. Wood	173.7L	1-8"						7	47	71				3	128
Dutro Brothers	175.5R	1-3"						NO DIVERSION							
Dutro Brothers	176.6R	1-4"						1	4	3	4	7	6	3	28
L. L. Brunemer (d)	177.2L	1-6"						NO DIVERSION							
Los Molinos Mutual Water Company (d)	187.6L	1-12"						NO DIVERSION							
John Taylor	188.5L	1-1½"								3	2				5
Orville L. Johnson	188.51L	1-2½"						NO DIVERSION							
Henry Kerber	188.8L	1-10"							186	171	171	143	162		833
R. C. Osborn	189.1R	1-6"									11	6	7		24
Diamond National Corporation	191.5R	1-8"	164	169	170	153	170	162	153	164	170	170	164	170	1979
Arthur Stanley	196.5L	1-2½"						NO DIVERSION							
W. R. Harris	196.55L	1-1½"								2	1	1	1		5
S. and E. Erickson	196.6L	1-5"	1					5	12	19	27	1	4	5	74
Diamond National Corporation	197.0L	1-8"							101	50	71	94	52	50	418
Carl Fahle	197.1L	1-3"								2	6	4	1		13
O. Gilliland	197.5L	1-1¼"											1		1
Al Gaumer	198.0L	1-3"	1												1
Al Gaumer	198.3L	1-3"	1					3	11	21	25	26	15	12	114
BUTTE CITY TO RED BLUFF Totals			18150	2314	298	203	595	116900	166700	155600	175700	160700	77910	47100	922100
Average cubic feet per second			305	38	5	4	10	1965	2711	2615	2857	2613	1309	766	1274
Monthly use in per cent of seasonal			2.0	0.2	0	0	0.1	12.7	18.1	16.9	19.0	17.4	8.5	5.1	

a Formerly listed as Joe Thomas.
b An additional 23350 acre feet was received from Butte Creek as follows: November 1830, December 30, April 2970, May 5190, June 3460, July 3760, August 2280, September 2260, and October 1570.
c Additional 18,604 acre feet diverted by gravity from Stony Creek as follows: March 7720, April 9470, May 1240, and June 174.
d New installation in 1961.
e Non-agricultural use.

TABLE 1[illegible]

DIVERSIONS - SACRAMENTO RIVER
(Red Bluff to Redding)
November 1[illegible] through September 30, October 1[illegible]

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--GAGING STATION - SACRAMENTO [illegible] RIVER NEAR RED BLUFF--															
C. T. L[illegible]ftus	20[illegible].1L	1-4"	9				1[illegible]	1	1[illegible]	23	.0	3[illegible]	20	1[illegible]	1[illegible]
[illegible]. Mill[illegible]	207.[illegible]L	1-8"						[illegible]0	11[illegible]	11[illegible]	1[illegible]0	[illegible]	[illegible]1		[illegible]
[illegible]. Mi[illegible]	20[illegible].[illegible]	1-12"					12[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	1[illegible]		1[illegible]
[illegible] Mirada Olive Company	20[illegible].0R	1-4"						NO DIVERSION							
J. [illegible]. Nunes	21[illegible].0R	1-7"						NO DIVERSION							
M. R. Richmond	213.[illegible]L	1-3"						11	1[illegible]	1[illegible]	1[illegible]	[illegible]	11		[illegible]
F. I. Jelly [illegible]a)	215.7L	1-6"						4[illegible]	[illegible]	[illegible]0	[illegible]	1	[illegible]1		[illegible]
J. F. Nunes	216.0R	1-5"								[illegible]	[illegible]0	[illegible]0	24	[illegible]	[illegible]
M. [illegible]. Hunaeus	216.[illegible]L	1-3"								[illegible]	[illegible]	[illegible]			[illegible]
F. I. Jelly [illegible]a)	216.[illegible]L	1-6"						1[illegible]	40	[illegible]4	[illegible]4	[illegible]0	[illegible]1		[illegible]4[illegible]
Ha[illegible]kins Brothers	217.[illegible]L	1-5"	1[illegible]					[illegible]3	[illegible]7	[illegible]1	[illegible]1	[illegible]4[illegible]	1[illegible]	[illegible]	[illegible]
J. I. Haskins	217.[illegible]L	1-6"	8[illegible]							10[illegible]	[illegible]		[illegible]1		[illegible]
Rio Alto Rancho	221.0R	1-12"						16[illegible]	[illegible]7	[illegible]14	24	[illegible]	[illegible]2	[illegible]4	1[illegible]4
C. [illegible]. Draucker	228.0R	1-16"						[illegible]5	[illegible]	[illegible]75	204	144	151		[illegible]14
Floyd Leonard	233.5L	1-6"						NO DIVERSION							
W. [illegible]. Plywood Corporation	234.0R	1-8"	198	118	88	[illegible]3	1[illegible]	[illegible]	11	16	3[illegible]	40	[illegible]	6[illegible]	[illegible]1[illegible]
William Menzel Company, Incorporated	240.2L	1-12"	74[illegible]					121	12[illegible]	266	256	210	288	120	1[illegible]3
Lou Gerard	240.3L	1-2"						NO DIVERSION							
John Gladwell	240.4L	1-4"						NO DIVERSION							
Anderson-Cottonwood Irrigation District	240.5L	4-16"						2100	2760	3260	3900	3670	3060	2210	20960
Riverview Golf Course	240.8L	1-4"	1					16	19	29	29	19	20	12	145
J. H. Hein Company	241.9L	1-4" 1-6"						NONAGRICULTURAL USE							
Anderson-Cottonwood Irrigation District	246.0R	Gravity	4330					20200	22300	22800	23600	22500	21000	20400	b157100
City of Redding	246.25L	2-6"										9	8	[illegible]	25
Maybell Diestelhorst	246.3R	1-8"							27	78	97	59	42	2[illegible]	325
City of Redding	246.7R	3-8"	195	183	190	167	180	273	256	533	675	619	442	299	4012
--GAGING STATION - SACRAMENTO RIVER AT KESWICK--	250.5														
RED BLUFF TO REDDING															
Total			461	301	278	190	378	23390	26220	28100	30070	28170	25620	23230	190700
Average cubic feet per second			81	5	5	3	6	393	426	472	489	457	430	378	264
Monthly use in per cent of seasonal			2.5	0.2	0.1	0.1	0.2	12.3	13.7	14.7	15.8	14.8	13.4	12.2	
SACRAMENTO RIVER - SACRAMENTO TO REDDING															
Total			[illegible]7	6356	2931	2464	4451	24920	[illegible]	380[illegible]00	431000	3[illegible]	[illegible]2000	83500	21[illegible]000
Average cubic feet per second			[illegible]16	106	48	44	[illegible]2	418	6[illegible]	[illegible]96	[illegible]0	6[illegible]	2[illegible]00	13[illegible]	[illegible]2
Monthly use in per cent of seasonal			1.[illegible]	0.3	0.1	0.1	0.2	11.6	1[illegible].[illegible]	1[illegible].6	20.2	1[illegible].[illegible]	[illegible].D	3.[illegible]	

a New installation in 1961.
b Includes 10,620 acre feet of spill as follows: November 4330, April 2610, May 1040, June 250, September 630, and October 1760.

TABLE 195

DIVERSIONS - COLUSA BASIN DRAIN *
November 1960 through October 1961

Water User	Mile and Bank * *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov -Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.	
--GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTFALL GATES)--	0.25L														
River Farms Company	0.3L	1-10" 1-20"						NO DIVERSION							
--RIDGE CUT AT KNIGHTS LANDING--	0.4R														
John J. Anderson	1.45R	1-16" 1-20"		32	18				8	156	204	100			518
John C. Cooling	4.2R(0.1)	1-16"					18	146	9	145	174	100			592
J. E. Taylor	4.2R(0.7)	1-12"							4	51	53	35	17		160
B. C. and T. D. Tolson	4.2R(0.8)	1-12"					11	82							93
Layton Knaggs	4.65R(0.3)	2-24"						145	664	951	1010	966	372		4108
Layton Knaggs	7.2R	3-16" 1-20"	58	26	7			266	1230	1440	1910	1920	610	232	7699
George E. Youngmark	8.8R	1-14" 1-16"						285	873	765	843	732	104		3602
Hershey Estate	11.15R	1-16" 1-18"	80	124	57			224	687	510	765	877	413		3737
Hershey Estate	13.75R	1-16"						210	497	433	422	437	71		2070
C. M. Mumma	14.75R	1-16"						189	438	254	278	263	50		1472
--COUNTY LINE BRIDGE--	15.25														
J. V. Doherty	15.5R	1-12"								15	84	36			135
M. T. Emmert	15.75R	1-12"						NO DIVERSION							
N. B. West, Jack Hughes and Dr. R. C. West	18.1R	1-15" 1-20"						64	281	287	379	341	117		1469
James Iriart	18.5R(0.8)	1-14"						63	286	361	396	383	154		1643
--RECLAMATION DISTRICT 108 GRAVITY DRAIN--	19.9L														
Reclamation District 108	19.9L	1-16" 1-24" 1-30"						261	2190	1710	1020	2640	435		8256
James Iriart	20.0R	1-14"	112	26			35	439	325	418	670	680	496	446	3647
B. W. Whitmire and D. S. Adams	21.35R	2-16"	17	188			31	331	403	329	321	300	12		1932
Albert Brandenburg	22.15R	1-14"						NO DIVERSION							
--GAGING STATION - COLUSA BASIN DRAIN NEAR COLLEGE CITY--	22.5L														
Aileen Browning Armstrong	22.75R(0.1)	1-16"						NO DIVERSION							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6														
Balsdon Ranch	24.6R(0.3)	1-16"						NO DIVERSION							
Balsdon Ranch	24.6L(0.3)	1-14" 2-16"	47	10			1	67	359	532	943	201	57	92	2309
Henry J. Olin	24.6L(0.31)	1-12"						34	156	234	224	136	79	49	912
Luta King	25.1R	1-6"						NO DIVERSION							
Gertrude M. Sherer	25.3L	1-16"						NO DIVERSION							
Gertrude M. Sherer	25.5R	1-10"						NO DIVERSION							
--GRIMES - COLLEGE CITY CAUSEWAY--	25.5														
Fred Schutz	25.9L	1-16" 1-20" 1-24"						NO DIVERSION							
Roy E. Kitts	26.4R(0.1)	1-18"						41	176	120	130	90	68		625
C. W. and M. F. Struckmeyer	27.25L(0.3)	1-16"					12	113	108	379	475	446	210	12	1755
William P. Wallace Ranch	28.0R	1-12" 1-16"						126	567	647	663	666	251		2920
--WALLACE CROSSING (OLD MERIDIAN-WILLIAMS BRIDGE)--	29.2														
Olive Percy Davis, et al	29.79L	Gravity						NO DIVERSION							
Olive Percy Davis, et al	29.8R(0.4)	1-16"		14	7			15	61	6	53	70	40		266
Fred Wilkins	29.8R(1.0)	1-14"						NO DIVERSION							
Glenn-Colusa Irrigation District	29.8R(1.4)	1-20" 2-38"					65	728	1080	1160	2790	1840	40		7703
Olive Percy Davis, et al	32.1R	1-16"					19	270	602	562	623	723	84		2883
Federal Fish and Wildlife Service	32.6R	1-16"	91	89	28						8	355	208	226	1005
J. G. Olvey	32.6L	1-14"						NO DIVERSION							
Arata Brothers	32.9L	1-8"	7	8	3										18
Richard Moore	33.5L	1-12" 1-16"	7	7	4										18
Federal Fish and Wildlife Service	36.65R	1-15" 1-20"	195					381	976	764	949	1120	990	698	6073
--GAGING STATION - COLUSA BASIN DRAIN AT HIGHWAY 20--	37.0														
Federal Fish and Wildlife Service	37.0L(0.1)	1-15"						NO DIVERSION							

TABLE 19S

DIVERSIONS - COLUSA BASIN DRAIN* (contd.)
November 1960 through October 1961

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
I. O. Zumwalt Company	39.2L	8-20"					105	1880	3240	3200	4960	3800	1390	887	19460
East Williams Land Company	39.2R	1-16"									26	103			129
J. N. Cave	39.98R	1-10"						NO DIVERSION							
Leon Peulo and L. W. Seaver	40.0L	3-16"		76			19	443	1110	823	1190	1260	449	12	5382
J. N. Cave	40.5R	a 1-10"												296	296
Lloyd W. Seaver and F. J. Byington	41.5L	4-16"					8	563	907	771	888	839	269	8	4253
Coffman and Campbell	42.6L	1-16"						182	416	234	374	346	22		1574
Louis G. Sutton	42.7R	1-16"						NO DIVERSION							
Watt Brothers	43.2L	1-12" 1-16"						111	522	363	521	470	148		2135
Watt Brothers	43.4R	1-12"						21	115	70	107	109	42		464
S. Ash	45.0L	2-16"						316	965	772	1020	1080	266		4419
Charles W. Welch	45.0R	1-12" 1-15" b 1-16"						132	581	509	533	554	185		2494
El Dorado Sportsman Club	46.5R	1-16"						NO DIVERSION							
I. O. Zumwalt Company	46.75L	1-24"						NO DIVERSION							
Lloyd Kahn	47.5L	1-6"						NO DIVERSION							
Lloyd Kahn	47.5L(0.4)	2-16"					21	387	701	592	583	525	53		2862
Charles W. Welch (c)	48.7L(0.1)	Gravity							236						236
Charles W. Welch	48.7L(0.2)	1-12"						NO DIVERSION							
Charles W. Welch	48.7L(0.3)	1-12"						34	100						134
Charles W. Welch	48.7R(0.8)	1-14" 1-16" 2-20"	499	498	193		15	613	2570	1840	2050	2100	1530	716	12620
Del Valley Farms, Incorporated	49.1R	1-10"	28	6											34
Lynn and Bohne	49.58L(0.9)	1-10" 1-12"						NO DIVERSION							
J. W. Guerin and W. J. Thompson	49.59R	1-12"	24	15	5										44
Helphenstine Rice Lands	49.69L	1-18"	36	64				142	727	589	940	556			3054
E. Butler, E. Meyer and J. Jones	49.7L	1-16"	3	8			5	125	370	294	346	405	31	23	1610
Dan Fonseca	50.2R	1-10"		7						2	17	28	5	29	88
Longwell Acres	50.5L(0.3)	1-10"	98	73	26				1	35	23	28	9	93	386
Manuel Barrett Opp.	53.6R(1.3)	1-12"						NO DIVERSION							
Princeton-Codora-Glenn Irrigation District	54.2L	2-18"						1420	2220	2170	2390	2230	92		10520
John S. Lopes	54.9R	1-12"						NO DIVERSION							
J. P. Cardoza	55.0R	1-4"	20	11	3		3	10	4	5	7	6	3	5	77
--LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE--	57.5														
Provident Irrigation Opp. District (Willow Creek Plant)	57.5R(2.4)	1-24" 1-36"		240				29	270	193	205	63	42	430	1472
Jamieson Ranches, Incorporated	58.4R	1-12" 1-16"	4				7	178	551	631	633	621	129		2754
Joe Navarro	59.0R	1-18"						NO DIVERSION							
Provident Irrigation Opp. District (Drain #55)	61.2R(1.5)	Gravity	1470	1220	94			3210	7430	6620	6860	6190	4240	2570	39900
Dorothy Foote	62.4L	1-16"						169	428	375	454	246	214		1886
Provident Irrigation Opp. District	62.8L(2.5)	2-16"						383	621	339	452	453	20	22	2290
Terrill Knight	63.2L	1-12" d 1-14" 1-16					6	149	446	336	388	357	55		1737
John M. Demmer (e)	63.7L	1-12"						NO DIVERSION							
Mary R. Bohach (f)	64.1L	1-12" 1-14"						204	252	232	302	308	42		1340
Provident Irrigation District (Colusa Drain)	64.2R(0.1)	1-20" 1-24"	194						3340	2720	1520	3070	1260		12100
Provident Irrigation Opp. District (Drain #13)	64.2R(2.6)	1-16" 1-20" 1-24"						503	132	1990	1030	1160	643	39	4497
Provident Irrigation Opp. District (Drain #13)	64.2R(2.6)	Gravity	759					671	1940	1290	1540	1830	1430	575	10040
Roy Funke	64.21R(2.6)	1-1"						NO DIVERSION							
COLUSA BASIN DRAIN															
Total			3749	2742	445		381	16360	42180	39220	44750	44190	17450	7460	218900
Average cubic feet per second			63	45	7		6	275	686	659	728	719	293	121	302
Monthly use in per cent of seasonal			1.7	1.2	0.2		0.2	7.5	19.3	17.9	20.4	20.2	8.0	3.4	

* Carries return water from Colusa Basin along west border of Reclamation Districts 108 and 787 and then discharges to Sacramento River at Mile 34.15R or partial diversion via Knights Landing Ridge Cut.

** Mileage along Colusa Basin Drain from junction with Sacramento River.

a Replaces a 14" unit.
b The 16" unit was installed in 1961.
c New installation in 1961.
d The 14" unit was a temporary installation during 1961
e Formerly listed as Demmer and Bohach.
f Formerly listed as John M. Demmer and Mary R. Bohach.

TABLE 196

DIVERSIONS - KNIGHTS LANDING RIDGE CUT

November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct.	
--STATE HIGHWAY 24 BRIDGE--	0.3														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	0.7														
E. L. Wallace	0.8R	1-16" 1-20"						334	587	548	734	605	441	115	3364
M. R. Richardson	0.82L	1-14"						37	65	29	73	38	24		266
--RECLAMATION DISTRICT 730 DRAINAGE PLANT #2--	3.2R														
Ralph W. Pollock	3.5L	Gravity						66	137	133	137	137	66		676
W. K. Lowe	4.3R	1-16"											45		45
Ralph W. Pollock	4.55L	1-16"								50	55	69	31		205
Albert Bacchini	4.7R	1-6"						4	17	14	23	17			75
Hershey Estate	4.75L	1-24"						26	31	99	139	110	44	12	461
Hershey Estate	5.25R	1-16"						NO DIVERSION							
--WEST LEVEE YOLO BYPASS--	6.3														
Hershey Estate	6.3R	Gravity						NO DIVERSION							
Hershey Estate	6.3	Gravity						338							338
Sacramento River Ranch	6.3L	Gravity													a 9882
KNIGHTS LANDING RIDGE CUT Totals								805	837	873	1161	976	651	127	15310
Average cubic feet per second															
Monthly use in percent of seasonal															

* Mileage downstream from head on Colusa Basin Drain near Knights Landing. Flow is principally Colusa Basin Drainage diverted to the Ridge Cut by checking at Knights Landing Outfall Gates.

a Records not sufficient to compute monthly acre-feet. Total acre-feet computed by applying consumptive use factors for individual crops to acreage irrigated.

TABLE 197

DIVERSIONS - YOLO BYPASS
(East Borrow Pit or Tule Canal)
November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
Swanston Land Company	1.8S (0.5)	1-14"						NO DIVERSION							
Swanston Land Company	1.5S	1-14"						NO DIVERSION							
Swanston Land Company	1.1S	1-18" 1-20"						PLANT REMOVED							
--GAGING STATION - YOLO BYPASS BELOW SACRAMENTO BYPASS--	1.0S														
Swanston Land Company a	0.85S	b 1-14" 1-16"						395	661	621	662	617	275		3231
Swanston Land Company	0.8S	1-14"						NO DIVERSION							
Swanston Land Company	0.5S	b 2-14"								127	246	246			619
--GAGING STATION - YOLO BYPASS ABOVE SACRAMENTO BYPASS--	0.0														
Swanston Land Company	1.8N	1-16" 1-20"						248	533	781	992	1040	441	49	4084
Gnsher, Alexander and Barsoom	2.4N	1-20"						14	264	341	212	191	81		1103
--SACRAMENTO-WOODLAND HIGHWAY--	6.18N														
--SACRAMENTO-WOODLAND RAILROAD BRIDGE--	6.2N														
City of Woodland	6.5N	1-16"						NO DIVERSION							
--CACHE CREEK--	7.0N														
Hershey Estate	9.5N	1-16"						NO DIVERSION							
--KNIGHTS LANDING RIDGE CUT--	9.6N														
--RECLAMATION DISTRICT 1600 DRAINAGE PLANT--	10.0N														
YOLO BYPASS (East Borrow Pit or Tule Canal) Totals			0	0	0	0	0	657	1458	1870	2112	2094	797	49	9037
Average cubic feet per second			0	0	0	0	0	11	24	31	34	34	13	1	12
Monthly use in percent of seasonal			0.0	0.0	0.0	0.0	0.0	7.3	16.1	20.7	23.4	23.2	8.8	0.5	

* Mileage is given northerly or southerly from North Levee of Sacramento Bypass. Diversions from East Borrow Pit of Yolo Bypass are primarily from water diverted through Knights Landing Ridge Cut.

a New installation in 1961.

b The 14" pump is a portable unit used at both Mile 0.85S and Mile 0.5S.

TABLE 198

DIVERSIONS - LOWER BUTTE CREEK AND BUTTE SLOUGH
November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
	•							LOWER BUTTE CREEK							
Reclamation District 1004	3.2R	1-14"						NO DIVERSION							
Reclamation District 833	3.3L	1-16"							56	259	459	227	33		1034
Colusa Shooting Club	4.1L	1-16"	4							91	82	11	179	257	624
West Butte Farms Company	4.25L	1-18"								222	335				557
Reclamation District 1004	4.3R	1-20" 1-24"							1080	865	922	825	618	390	4700
El Anzar, Incorporated	5.7L	1-12"								137					137
Field and Tule	7.1L	1-16"						NO DIVERSION							
White Mallard Duck Club	11.8R	Gravity	28											457	485
White Mallard Duck Club	11.8R(0.5)	1-12"	65	592				214	390	330	434	409	65		2499
Reclamation District 1004	11.8R(2.6)	Gravity	4290	4310	1310			1100	1520	1650	1910	1290	2240	5350	24970
Reclamation District 1004	Opp. 14.4R(0.2)	Gravity	1520	1890	256			379	1210	1040	118			1670	8083
Compton Wills Ranch	Opp. 14.4R(0.4)	1-16"						NO DIVERSION							
--ORIDLEY ROAD BRIDGE--	15.4														
Butte Basin Gun Clubs	15.6L	Gravity	3000	3000											6000
J. Ken Sexton and Son	19.3R	1-16"						66	63	49	109	70	96	7	460
--BIGGS - AFTON ROAD BRIDGE--	19.4														
J. Ken Sexton and Son	Opp. 19.6R(0.8)	1-14"						NO DIVERSION							
Homar and Homar A. Charles	Opp. 20.7R(0.8)	2-16"	144	75				33	181	203	226	244	46		1152
McGowan Brothers	Opp. 20.9R(0.5)	1-16"						NO DIVERSION							
McGowan Brothers	21.0R	1-20"						NO DIVERSION							
E. McPherrin	21.1L	1-16" 1-20"						136	1480	1990	1880	1510	619		7615
Mary Lou Hulen	Opp. 21.4R(1.0)	1-16"									80	11	27		118
McGowan Brothers	Opp. 22.4R(0.7)	1-16"					66								66
McGowan Brothers	Opp. 22.4R(1.1)	1-16"	97	58						1	1			59	216
--RICHVALE - BUTTE CITY ROAD BRIDGE--	22.5														
McGowan Brothers	23.0R	a 2-16" 1-20"						549	1320	1220	1350	1290	245		5974
Narris Lands	23.0L	1-16"					33		58	77	82	75	59	23	407
McGowan Brothers	Opp. 23.0R(0.75)	2-16"						NO DIVERSION							
McGowan Brothers	Opp. 23.5R(1.2)	1-16"						61	255	423	397	125	21		1282
McGowan Brothers	Opp. 24.0R(0.5)	b 1-14" 1-16" 1-20"						602	484	830	829	698	111		3554
McGowan Brothers	24.5R(1.4)	1-16"						NO DIVERSION							
Ruth Baldwin and Charles K. Layton	Opp. 25.6L(0.6)	2-16"						NO DIVERSION							
Arrowhead Ranch	28.0R	1-12" 1-16"						53	242	273	285	236	171	11	1271
Arrowhead Ranch	29.2L	1-12"						74	247	320	317	131	17		1106
--WESTERN CANAL DAM--	30.3														
	••							BUTTE SLOUGH							
--SACRAMENTO RIVER JUNCTION--	0.0														
Butte Slough Irrigation Company	0.0	Gravity													c
M. Marty	0.3W	1-10"						13	77	100	155	146	107	18	616
--BUTTE CREEK--	0.6E														
Mrs. Mamie A. Smith	0.9E	1-7"						NO DIVERSION							
Joe Marty	1.0W	1-12"							14	17	52	38	14		135
Mrs. Mamie M. Smith	1.4E	1-8"								68	144	92	15		319
Fred Tarke	1.9W	1-14"									99				99
--MAWSON BRIDGE--	2.1														
C. W. Rawley	2.5W	1-14"	1							136	34	261	42		474
J. E. Smith	3.0W	1-10"								105	17	46	4		172
Pearl Clark and Alice Brewer	3.5W	1-10"							4	40	15	28	13	2	102
P. A. Reische	3.7W	1-10"							11	12	3	6			32
Orannlman and Pieth	4.08W	1-6"								5	4	4			13
P. A. Reische	4.1W	1-10"							70	134	12	15			231
W. J. Hankins	4.8W	1-12"							13	138	12	44			207
P. B. Hansen	5.1W	1-12"					5	1	34	106	68	96	41	6	357
Edward E. Nall	6.3W	1-12"								39	3				42
LOWER BUTTE CREEK AND BUTTE SLOUGH Totals			9149	9925	1566		104	3281	8809	10880	10430	7928	4783	8250	75110
Average cubic feet per second			154	161	25		2	55	143	183	170	129	80	134	104
Monthly use in per cent of seasonal			12.2	13.2	2.1		0.1	4.4	11.7	14.5	13.9	10.5	6.4	11.0	

• Mileage on Butte Creek from junction with Butte Slough at Mile 0.6E.

•• Mileage on Butte Slough from junction with Sacramento River at Mile 84.0L.

a One 16" unit was a temporary installation during 1961.

b The 14" unit was a temporary installation during 1961.

c Flow in Butte Slough derived from Butte Creek, is controlled by outfall gates at junction with Sacramento River and is thereby retained in Butte Slough to discharge into East and West Borrow Pits of Sutter Bypass near "Long Bridge." The Outfall Gates are maintained by the Department of Water Resources and are operated cooperatively with the Butte Slough Irrigation Company. See Sutter Bypass Diversions.

TABLE 199

DIVERSIONS - SUTTER BYPASS AND SACRAMENTO SLOUGH
November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
	*							West Borrow Pit of Sutter Bypass (a)							
- -SOUTHERN PACIFIC RAILROAD BRIDGE- -	2.5														
C. Fred Holmes	b 8.0R	1-18"								8	48				56
- -STATE HIGHWAY 24 CAUSEWAY- -	12.7														
Sutter Mutual Water Company	17.5R	1-18"							143	49	103	172	169		636
- -SOUTH LEVEE OF TISDALE BYPASS- -	18.9R														
- -RECLAMATION DISTRICT 1660 GRAVITY DRAIN- -	19.3R														
J. Guisti and Sons	23.7R	1-16" 1-24"						282	1600	1050	1530	1450	1000		6912
Central Sun Club (c)	24.5L	1-12"											149	99	248
Butte Slough Irrigation Company Limited	25.0R	Gravity						45	396	425	464	419	136		1885
Butte Slough Irrigation Company Limited	28.4R	Gravity						668	1020	1360	1770	1720	327		6865
Fred Tarke	28.6R	1-4" 1-12"								4	29	21	8		62
C. A. Frye	29.0R	d 1-8"								11	8				19
- -STATE HIGHWAY 20 BRIDGE- -	29.1														
Fred Tarke	29.2R	1-10"								50	18	30	2		100
- -SACRAMENTO NORTHERN RAILROAD BRIDGE- -	29.25														
	**							East Borrow Pit of Sutter Bypass (a)							
R. E. Hughes	b 0.95S	1-16"							124	14	80	131			349
T. H. Richards	0.5S	1-18"						NO DIVERSION							
- -WILLOW SLOUGH- -	0.0														
R. E. Hughes #7	b 0.5N	1-16"						112	793	916	879	904	184		3688
- -RECLAMATION BOARD DRAINAGE PLANT #1- -	1.4N														
Cliff P. Childers	g 1.4N(0.3)	1-16"							3	9					12
Cliff P. Childers	1.4N(1.29)	1-16"						98	304	292	294	297	77		1362
E. H. Christensen and Sons	1.4N(1.32)	1-14" 1-16"						337	762	655	779	854	154		3541
E. H. Christensen and Sons	1.4N(1.45)	1-14"						182		88	12	93	48		423
E. H. Christensen and Sons	1.4N(1.75)	1-16"						86	501	504	503	506	59		2159
E. H. Christensen	1.4N(2.8)	1-14"						NO DIVERSION							
E. H. Christensen	1.4N(3.3)							NO DIVERSION							
E. H. Christensen	1.4N(3.5)	1-18"								121	104	214			439
Oji Brothers (e)	1.4N(3.6)	1-10"								3	45	124			172
E. H. Christensen (e)	1.4N(3.6)	1-12"						60	72	125	154	84	88		583
E. H. Christensen	1.4N(3.9)	1-12"								59	61	84			204
E. H. Christensen	1.4N(4.0)							NO DIVERSION							
E. H. Christensen	1.4N(4.1)	1-16"								88	18	132	62		300
E. H. Christensen	1.4N(4.29)	1-16"						19	146	257	397	279			1098
E. H. Christensen	1.4N(4.3)	f 1-10"						3	20	7	29	38			97
Rai Brothers	1.4N(4.3)	# 1-8" 1-12"						15	220	139	151	149	60		734
E. H. Christensen	1.4N(4.33)	1-16"						194	542	568	581	560	164		2609
E. H. Christensen	1.4N(4.35)	1-14"						74	721	755	788	765	315		3418
R. E. Hughes #6	b 1.5N	1-16"	409	345	130				300	611	648	655	218	335	3851
R. E. Hughes #5	b 2.9N	1-14"	230	94				9	67	19	125	72			616
Neal Westrope	b 4.0N	1-14" 1-16"						16	121	41	230	198			606
- -STATE HIGHWAY 24 CAUSEWAY- -	4.3N														
Neal Westrope	b 4.5N	2-14"						58	448	474	485	511	127		2103
Ira Mulligan	5.7N	1-16"						78	487	543	649	585	252		2594
R. J. Hughes #2	b 5.9N	1-14"						99	614	678	704	749	249		3093
J. Etcheverry	5.91N	1-14"						99	614	618	627	642			2600
O. O. Orrick	b 6.9N	1-10" 2-16"	251	109	41			22	136	44	332	251			1186
Ira Mulligan	7.1N	1-16"						NO DIVERSION							
- -GILSIZER SLOUGH- -	8.0N														
O. O. Orrick	b 8.0N(0.45)	1-16"							597	550	685	673	279		2784
Crepps and Middleton	b 9.99N	1-15"						50	307	324	591	519	2	29	1822
Crepps and Middleton	b 10.0N	1-16"	123					15	97	194	17	20	417	337	1210
- -RECLAMATION BOARD DRAINAGE PLANT #2- -	10.0N														
Crepps and Middleton	¥10.0N(0.3)	1-12"						53	329	400	426	417	196		1821
Dettling Brothers	10.0N(0.9)	1-20"							123						123

TABLE 199

DIVERSIONS - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Mar.-Oct. Acre-feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept.	Oct.	
Dettling Brothers	10.0N(1.8)	1-16"	214	310	88										612
Federal Fish and Wildlife Service (e)	10.0N(1.99)	1-16"											57	591	648
Sutter Extension Water District	10.0N(2.0)	1-20" 1-30"	551	445				876	2810	2280	2230	2120	1130	71	12510
Ira Mulligan	10.0N(2.3)	1-10"						NO DIVERSION							
Ira Mulligan	10.0N(2.5)	1-16"						NO DIVERSION							
Bridge Investment Company	10.0N(2.6)	1-16" 1-20"						270	608	646	786	732	261		3303
Bridge Investment Company	10.0N(2.65)	1-14" 1-20"						151	937	1030	1240	1250	1080		5688
Bridge Investment Company	10.0N(3.0)	2-12"							52	102	135	157			~~446~~
Percy Davis	10.0N(4.5)	1-12"						98	116	96	116	155	115	63	759
Sutter Extension Water District	10.0N(6.7)	1-20"						390	362	197	672	828	125		2574
Federal Fish and Wildlife Service	b 11.5N	1-12"	195	172											367
Federal Fish and Wildlife Service	b 16.3N	1-24" Gravity	1520	938				567	730	958	1680	1840	1040	1880	11150
R. A. Schnabel	b 16.4N	1-8"							35	31	44	35	2	28	175
- -WADSWORTH CANAL- -	16.5N														
R. A. Schnabel	₩16.5N(1.0)	1-16"									9	52			61
Fred S. Betty	16.5N(1.0)	1-10"						4	24	7	47	82			164
- -GAGING STATION - WADSWORTH CANAL NEAR SUTTER -(LOWER STATION)- -	16.5N(1.05)														
H. D. Brown	16.5N(1.35)	1-20"						349	615	315	844	812	222		3157
A. N. Muns	16.5N(1.36)	1-16"						177	165	314	24	38	193		911
Vesper Kellogg	16.5N(1.5)	1-14"					1			107	88	92	75	7	370
Albert Thomasen	16.5N(1.7)	1-16"						NO DIVERSION							
- -STATE HIGHWAY 20 BRIDGE- -	16.5N(2.0)														
- -GAGING STATION - WADSWORTH CANAL NEAR SUTTER -(UPPER STATION)- -	16.5N(2.45)														
Epperson, Kennedy, and Joaquin	16.5N(2.5)	1-10"								4	40	25	41		110
Clara Farrington	16.5N(2.51)	1-10"						NO DIVERSION							
Youill Joaquin	16.5N(3.0)	1-14"						93	207	149	317	44	29		839
Gerald F. Raub	16.5N(3.6)	1-16"						10	35	38	122	64	27		296
- -GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD- -															
- -RECLAMATION BOARD DRAINAGE PLANT #)- -	16.7N														
Fred S. Betty	₩16.7N(0.9)	1-8"								77	26	48	14		165
Fred S. Betty	16.7N(1.0)	1-10"						3	18	27	22	28			98
Fred S. Betty	16.7N(1.3)	1-14"						79	491	407	455	443	129		1994
Fred S. Betty	16.7N(1.4)	1-16"						93	577	529	595	569	221		2584
Mrs. H. C. and C. H. Epperson	16.7N(1.49)	h 1-)" 1-10"								38	194	112			344
Mrs. H. C. and C. H. Epperson	16.7N(1.5)	i 1-16"							389	544	635	631	182		2381
Mrs. H. C. and C. H. Epperson	16.7N(1.51)	1-16"							46						46
T. Bihlman	16.7N(1.85)	1-14"						55	334	353	356	332	106		1540
Mrs. N. C. and C. H. Epperson	16.7N(2.65)	1-8"						NO DIVERSION							
Elden Tarke	16.7N(3.0)	1-16"						24	148	225	356	307	104		1164
Edward Dean	b 16.7N	1-12"	63	25					35	90	91	52	8	132	496
Edward Dean	b 16.75N	1-16"						NO DIVERSION							
Epperson, Myers, DeWitt and Middleton	19.1N	1-12"							67	259	364	169			863
T. S. Madden	19.9N	1-16"						130	440	428	548	527	201		2280
- -STATE HIGHWAY 20 BRIDGE- -	19.98N														
- -SACRAMENTO NORTHERN RAILROAD BRIDGE- -	20.0N														
								SACRAMENTO SLOUGH							
SUTTER BYPASS AND SACRAMENTO SLOUGH totals			3546	2438	259		1	6043	21360	21200	26400	25850	10100	3572	120500
Average cubic feet per second			60	40	4		0	102	342	356	429	420	170	58	186
Monthly use in per cent of seasonal			2.9	2.0	0.2		0	5.0	17.5	17.6	21.9	21.5	8.4	3.0	

* Mileages on West Borrow Pit are given northerly from drain plant of Reclamation District 1500. Mile 9.15 on West Borrow Pit is opposite Chandler.
** Mileages on East Borrow Pit are given northerly or southerly from Chandler.
& Plant is on main drain canal for Drainage Plant No. 1 that joins East Borrow Pit of Sutter Bypass at Mile 14.4N. Figure in parentheses indicates distance along drain from East Borrow Pit.
% Plant is on drainage canal for Drainage Plant No. 2 that joins East Borrow Pit of Sutter Bypass at Mile 10.0N. Figure in parentheses indicates distance along drain from East Borrow Pit.
# Plant is on Wadsworth Canal that joins East Borrow Pit of Sutter Bypass at Mile 16.5N. Figure in parentheses indicates distance along canal from East Borrow Pit.
@ Plant is on Poodle Creek that joins East Borrow Pit of Sutter Bypass at Mile 16.7N. Figure in parentheses indicates distance along creek from East Borrow Pit.
a Water used for irrigation in Sutter Bypass is mainly Feather River return water which enters East and West Borrow Pits via Butte Creek, Butte Slough and Wadsworth Canal.
b Indicates area irrigated is within Bypass.
c Installed prior to 1961. Not previously listed.
d Replaces a 7" unit.
e New installation in 1961.
f Previously listed as a 6" unit.
g The 8" unit was a temporary installation during 1961.
h The)" unit was a temporary installation during 1961.
i Previously listed as 20" unit.

TABLE 200

DIVERSIONS - FEATHER RIVER

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Walter Raymond	0.6R	1-20"								41	243	28			312
Walter Raymond	1.0R	1-18"								47	450	41			538
William Baird	1.5R	1-12"									67	8			75
Kipp and Reith	2.2L	1-18"							52	111	173	112	115		563
Walter Raymond	2.6R	2-20"								301	697	11			1009
Lingge-Elliott Ranch	2.6L	1-12"						31	77	178	89	139	74	3	589
Walter Raymond	4.0R	1-16"									72	26			98
Mrs. Aileen Marty	4.55L	1-18"						78	116	147	121	123	183		768
O. R. Toledo and Son	5.2L	1-12"						22	48	74	143	118	53	16	474
White Oak Ranch	5.6L	1-14"	36			7	45	67	259	227	301	337	290	201	1770
A. L. Naymore Estate	6.44L	1-10"	4				7	56	102	118	126	115	36	63	627
M. Scheiber	7.7L	a 1-14"						118	268	193	165	206	187	98	1235
--NICOLAUS BRIDGE--	9.2														
--GAGING STATION - FEATHER RIVER AT NICOLAUS--	9.2L														
Leo Muller	9.25L	1-8"	2						16	33	32	19	3		105
Namatani Brothers b	9.75R	1-20" 1-30"			44			697	1380	1970	2110	1960	1210	95	9466
Leslie A. and Carl A. Scheiber	10.3L	1-4"	28	27											55
--BEAR RIVER--	12.0L														
Garden Highway Mutual Water Company	13.1R	2-20" 1-24"						1730	2950	2550	2840	2210	557		12840
Plumas Mutual Water Company	17.5L	2-20"						469	1780	1990	2110	1330	953	286	8918
Tudor Mutual Water Company	18.4R	2-30" 1-35"						903	1580	2280	2210	2020	1250		10250
O. C. Shannon	18.4R	1-18"						35	9	39	57	28			168
Oswald Water District	21.4R	2-16"						152	588	571	553	596	64	122	2646
DiGiorgio Fruit Corporation	21.9L	1-4"						NO DIVERSION							
--GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND--	23.0R														
--YUBA RIVER--	27.3L														
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0R														
--5th STREET BRIDGE--	28.0														
--10TH STREET HIGHWAY BRIDGE--	28.2														
Thomas, DiPiero, Campisi and Perrucci	30.9R	1-2½"						9	29	28	24	10	2	19	121
Richard Wilbur	32.3R	1-10"					19	73	8	50	39	30			219
A. A. Sligar and Son	33.1L	1-3"						NO DIVERSION							
Henry Everett	33.2R	1-4"						NO DIVERSION							
O. O. Prindiville	33.3R	1-10"						80	23	134	104	59			400
J. L. Sullivan, Jr.	33.9R	1-8" 1-10"						56	58	156	134	114			518
Sutter Extension Water District	38.1R	1-26" 2-48"						1560	393		4080	8650	1390		16070
La Finca Orchard	38.5L	1-5"						NO DIVERSION							
--MOWCUT SLOUGH--	43.7L														
Mathews, Sullivan and Prindiville	•(0.4L)	1-18"					111	156	240	298	366	133			1304
Matsumura Brothers	•(1.2L)	1-8"						10	12	54	37	33			146
W. J. Farley	•(1.25L)	1-8"						8	35	58	57	28	4		190
W. R. Madsen	44.0R	1-4"						PLANT REMOVED							
Oskar W. Noder	44.5R	1-7"						NO DIVERSION							
Herringer Enterprise	46.3L	1-20" 1-24"					1040	867	1280	1080	913				5180
W. L Robbins, Jr.	46.4R	1-6"						NO DIVERSION							
Manuel Aguiar	47.4L	1-7"						NO DIVERSION							
Manuel Aguiar	47.9L	1-12"	55						181	39	216	125	180	52	848
Robert S. Biggs	48.0L	1-7"						10	75	122	103	12			322
Robert S. Biggs	48.3L	1-10"						10	68	93	135	49			355
Bowers Ranch	49.0L	1-8"						39	20	54	57	36			206
--GAGING STATION - FEATHER RIVER NEAR GRIDLEY--	49.7L														
--GRIDLEY BRIDGE--	49.7														
Roy Mathews	49.7L	1-6"							4	24	30	13	15		86
Robinson Estate	50.4L	1-14"						NO DIVERSION							
M. A. Pedrozo and Sons	50.7L	1-6"							62	50	85	75	40	15	327

TABLE 200

DIVERSIONS - FEATHER RIVER (contd.)

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov -Oct Acre-Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
August Boeger	50.7R	1-8" 1-10"						PLANT REMOVED							
A. E. Bettencourt	51.0L	1-6"						NO DIVERSION							
Chambers Ranch o	51.4R	d 1-5" 1-10"							21	57	73	36	4		191
S. J. and J. R. Pratus	52.1L	1-8" 1-10"							23	32	44	31	26	13	169
S. J. and J. R. Pratus	52.2L	1-5"						NO DIVERSION							
Mart Butler	52.5L	1-7"	5					9	18	51	51	78	43		255
Moe Fruitman	52.7L	1-8"							44	40	23	19			126
Carl Lee Walker	53.5L	1-6"	7						78	87	97	87	45	31	432
Hearst Magazines, Incorporated	55.1L	1-14"						NO DIVERSION							
Henry Haselbusch	57.9L	1-9"	15						18	38	41	11			123
--SUTTER BUTTE CANAL COMPANY DAM--	57.9														
Joint Water District	58.1R	Gravity	2870					57600	106000	102000	89600	71700	46100	25000	500900
--WESTERN CANAL COMPANY DAM--	61.1														
Western Canal Company	61.2R	Gravity	11500	4130	1010			10100	30200	26800	31600	28600	13800	16100	173800
--OROVILLE - RICHVALE HIGHWAY BRIDGE--	62.6														
--OROVILLE - CHICO HIGHWAY BRIDGE--	65.0														
--GAGING STATION - FEATHER RIVER NEAR OROVILLE--	71.0														
FEATHER RIVER Totals			14520	4157	1054	7	1222	74940	148100	142200	140500	119400	66820	42110	754800
Average cubic feet per second			244	68	17	0	20	1259	2409	2390	2285	1942	1120	686	1043
Monthly use in percent of seasonal			1.9	0.6	0.2	0.0	0.2	9.9	19.6	18.8	18.6	15.8	8.8	5.6	

* Honcut Slough - Plant diverts Feather River water backed into Slough. Mouth of Slough is at Mile 43.7L. Distance from Feather River and bank is shown in parentheses.

a Replaces a 10" unit.
b Formerly listed as T. H. Richards.
c Formerly listed as Steadman Orchards.
d The 5" unit is portable.

TABLE 201

DIVERSIONS - YUBA RIVER

November 1960 through October 1961

Water User	Mile and Bank above "0" Street	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov -Oct Acre Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--HIGHWAY 99E BRIDGE--	0.0														
Richard Wilbur	0.9L	1-6" 1-12"							24	208	165	28			42[illegible]
--SIMPSON LANE BRIDGE--	0.9														
Ben Williams	1.4R	1-6"						NO DIVERSION							
Lorin N. Trubachenck	1.8R	1-6"						NO DIVERSION							
W. B. Harrington	2.2L	1-4" 1-5"						NO DIVERSION							
River Bend Ranch	3.0L	1-14"					204	168	4[illegible]	2[illegible]	[illegible]	214	4[illegible]		[illegible]
G. D. Lolmaugh	3.1R	1-10"						27		[illegible]	29	11	21		11[illegible]
Richard Wilbur	4.1L	a 1-10" a 1-12" 1-14"				1	[illegible]	[illegible]	[illegible]	[illegible]	76	5[illegible]	[illegible]	6[illegible]	[illegible]
Di Giorgio Fruit Corporation	4.75L	1-8"							4[illegible]	4	6	6	27		[illegible]
Di Giorgio Fruit Corporation	5.15L	1-6"								[illegible]	23	[illegible]	[illegible]		192
--GAGING STATION - YUBA RIVER NEAR MARYSVILLE--	5.2L														
Scott Hendricks	5.75L	1-14"						NO DIVERSION							
--DAGUERRE POINT DAM--	11.0														
Hallwood Irrigation Company	11.0R	Gravity	2470	2380	502		1710	111[illegible]	16[illegible]	16[illegible]	17[illegible]	[illegible]	[illegible]	7	[illegible]
Cordua Irrigation District	11.0R	Gravity	4440	6280	1570			[illegible]	1[illegible]	11[illegible]	11	[illegible]	66[illegible]		76[illegible]
--DRY CREEK--	13.1R														
Yuba Consolidated Gold Field Company	14.5L	Gravity	NONAGRICULTURAL USE												
--HIGHWAY 20 BRIDGE--	17.1														
--DEER CREEK--	21.8L														
--ENGLEBRIGHT DAM--	22.8														
YUBA RIVER Totals			6[illegible]	8[illegible]	1[illegible]	1	[illegible]	16[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Average cubic feet per second			116	141	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Monthly use in percent of seasonal			5.8	4.8	1.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

a Replaces a 5" unit and [illegible] 14" unit.

TABLE 202

DIVERSIONS - BEAR RIVER

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre Feet
			Nov.	Dec	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct	
--MARYSVILLE-NICOLAUS COUNTY ROAD BRIDGE--	2.7														
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	3.4														
--WESTERN PACIFIC RAILROAD BRIDGE--	3.9														
--DRY CREEK--	4.5R														
--TROWBRIDGE-WHEATLAND COUNTY ROAD BRIDGE--	6.8														
W. N. Gilbert	8.1R	1-6"						8	19	14					41
California Packing Corporation	9.0L	1-8"						NO DIVERSION							
California Packing Corporation	10.7L	1-10"					19	80	161	167	168	111	54	21	781
--HIGHWAY 99E BRIDGE--	11.3														
--GAGING STATION - BEAR RIVER NEAR WHEATLAND--	11.3														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	11.35														
BEAR RIVER															
Totals			0	0	0	0	19	88	180	181	168	111	54	21	822
Average cubic feet per second			0	0	0	0	1	3	6	6	5	4	2	1	2
Monthly use in percent of seasonal			0.0	0.0	0.0	0.0	2.3	10.7	21.9	22.0	20.4	13.5	6.6	2.6	

TABLE 203

DIVERSIONS - AMERICAN RIVER

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre Feet
			Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct	
--GARDEN HIGHWAY BRIDGE--	0.2														
--HIGHWAY 40 AND 99E BRIDGE (16th STREET)--	1.9														
--WESTERN PACIFIC RAILROAD BRIDGE--	2.1														
Joe Gomez	2.4L	1-5"						NO DIVERSION							
North Sacramento Lands Company	2.65R	1-8"						PLANT REMOVED							
North Sacramento Lands Company	2.75R	1-8"							4	26	25	33	18	2	108
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.0														
--ELVAS FREEWAY BRIDGE--	3.2														
--GAGING STATION - AMERICAN RIVER AT SACRAMENTO (N STREET)--	6.0														
E. Clemens Horst Company	6.5R	1-6"								3	2				5
E. Clemens Horst Company	7.0R	1-4"						NO DIVERSION							
E. Clemens Horst Company	7.5R	1-8"							14	14	39				67
J. I. Hass, Incorporated	7.7R	1-4"						1	5	6	14	15	6		47
Del Paso Rock Products	8.9R	1-1½"						PLANT REMOVED							
Walter J. Wissemann	9.0L	1-6"								29	25	31			85
G. L. Browning	9.05R	1-5"						NO DIVERSION							
J. G. and F. F. Gauenhauer	9.2L	1-4"									7	5	4		16
Ruth Coleman	9.4L	1-5"									39	24	13		76
Del Paso Rock Products Company	10.2R	1-8"						PLANT REMOVED							
Gold Nugget Orchard Company	10.4R	1-5"		5					7	16	5	7	6	4	50
Mucke Sand and Gravel Company	11.2L	1-4"						1	4	6	17	1	4	5	38
J. T. Core	11.5L	1-4"						NO DIVERSION							
Riverview Enterprises	11.7L	1-4"								14	17	7			38
Carmichael Irrigation District	14.76R	1-10" 2-12"	84		30	30	55	16	64	257	313	280	230	160	1519
J. R. Deterding	15.8R	1-4"						NO DIVERSION							
Carmichael Irrigation District	16.0R	4-10" 4-12' 1-14"	182	140	125	158	75	498	766	1090	1210	1070	732	564	6610
--FAIR OAKS BRIDGE--	19.0														
--BRIDGE STREET BRIDGE (OLD FAIR OAKS BRIDGE)--	19.2														
--GAGING STATION - AMERICAN RIVER AT FAIR OAKS--	19.2R														
AMERICAN RIVER															
Totals			266	145	155	188	130	516	864	1461	1713	1473	1013	735	8659
Average cubic feet per second			4	2	3	3	2	9	14	25	28	24	17	12	12
Monthly use in percent of seasonal			3.0	1.7	1.8	2.2	1.5	5.9	10.0	16.9	19.8	17.0	11.7	8.5	

TABLE 204

DIVERSIONS - PUTAH CREEK*
November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
T. S. Glide	0.8L	1-6"					3								3
Cowell Foundation (a) (b)	1.6R	1-12"						NO DIVERSION							
William C. Hamel	2.1R	1-4"						NO DIVERSION							
William C. Hamel	2.7R	1-10"								23	30	9			c 62
William C. Hamel (d)	2.8L	1-8"									74	25	1		c 100
William C. Hamel	3.0L	1-4"						PLANT REMOVED							
H. Marden Wilber	3.1R							PLANT REMOVED							
--COUNTY LINE ROAD BRIDGE--	3.8														
W. E. Hansen (d)	4.3L	1-8"							35	34					c 69
--GAGING STATION - SOUTH FORK PUTAH CREEK NEAR DAVIS--	7.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	7.5														
--U. S. HIGHWAY 40 BRIDGE--	8.0														
--WILLOW CANAL WASTEWAY--	8.8														
--GAGING STATION - PUTAH CREEK NEAR DAVIS--	9.0														
--PLAINFIELD ROAD BRIDGE--	10.0														
C.B. and Cornelia S. Phillips	12.65R	1-6"						NO DIVERSION							
--GAGING STATION - PUTAH CREEK ABOVE DAVIS--	12.8														
--STEVENSON ROAD BRIDGE--	12.8														
Sam F. and Marie Dorton	13.1L	1-5"						NO DIVERSION							
Fentzling Ranch	13.9L	1-7"						NO DIVERSION							
--GAGING STATION-PUTAH CREEK BELOW WINTERS (BOYCE ORCHARD)--	17.0														
Eyvind M. Faye (e)	17.1R	1-6"						23	40	89	14				c 166
A. C. A. Orchards	19.3L	1-4"						3	14	9	15	4			45
--SOUTHERN PACIFIC RAILROAD BRIDGE--	19.9														
--COUNTY ROAD BRIDGE--	19.9														
--PUTAH DIVERSION DAM--	22.6														
--PUTAH SOUTH CANAL--	22.6R														
Jack and Grace Fay	24.0R	1-3"							6	1	3	1	1		12
--COUNTY ROAD BRDIGE--	24.0														
Victor Tucker	24.0L	1-2"						NO DIVERSION							
Mabel Goddard, et al	24.9R	1-3"				1		20	26	21	38	32	24	18	180
Mabel Goddard, et al	25.2R	1-2½"							6		13	2	6	1	28
L. A. and Clara Sackett	25.6R	f 1-3"						2	2		10		5	6	25
L. A. and Clara Sackett	25.8R	f 1-3"									2	12	5		19
--GAGING STATION - PUTAH CREEK NEAR WINTERS--	27.8L														
Samuel S. Silvey (g)	28.4L	1-1½"							1	2	2	1	1	1	8
Samuel S. Silvey	28.6L	1-2"					2	2	2	3	3	5	5	5	27
--HIGHWAY 128 BRIDGE--	28.8														
--MONTICELLO DAM--	29.3														
PUTAH CREEK															
Total			0	0	0	1	5	50	132	182	204	91	48	31	744
Average cubic feet per second			0	0	0	0	0	1	2	3	3	1	1	1	1
Monthly use in percent of seasonal			0.0	0.0	0.0	0.0	0.7	6.7	17.8	24.5	27.4	12.2	6.5	4.2	

* Diversions shown in this table below Mile 7.2 are considered as Delta Uplands Diversions.
a Formerly listed as T. S. Glide.
b No Putah Creek water diverted by this pump. Water diverted was water pumped into Putah Creek from Yolo Bypass (West Cut) by pump at Mile 17.1R (1.4).
c This acreage also received an undetermined amount of well water.
d New installation in 1961.
e Formerly listed as William H. Boyce.
f Portable unit used at Mile 25.6R and 25.8R.
g Plant moved to Mile 28.7L.

TABLE 20

DIVERSIONS - COSUMNES RIVER*

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--WESTERN PACIFIC RAILROAD BRIDGE--	0.4														
R. L. Deller	0.8R	1-12"	6					8	44	51	44	48		19	221
R. L. Deller	1.7R	1-10"						NO DIVERSION							
Nicolaus Ranch a	1.9R	1-12" 2-16"						51	266	316	493	494	10	114	1742
Kenworthy and Patterson	2.0L	1-30"						229	716	598	628	545	172		2388
Nicolaus Ranch	2.8R	1-12"						PLANT REMOVED							
A. N. Watson	2.8L	1-7"								10	17	15			42
Nicolaus Ranch	3.1R	1-10"						NO DIVERSION							
--STATE NIGHWAY 104 BRIDGE--	5.3														
Fred O. Cary	6.0L	1-3"						NO DIVERSION							
L. O. Kilkeary and N. Trevor	9.8R	1-16"						NO DIVERSION							
Jack Lewis	10.5R	1-8"			80	80	49	55	61	10					335
--SOUTHERN PACIFIC RAILROAD BRIDGE--	10.6														
--U.S. 50 and 99 NIGHWAY BRIDGE--	10.7														
--GAGING STATION - COSUMNES RIVER AT McCONNELL--	10.7														
Gertrude T. Mitchell	14.3R	1-10"						NO DIVERSION							
M. P. Larkin	14.6L	1-5"								4					4
--FREEMAN ROAD BRIDGE--	14.9														
Ralph Nix	15.2L	1-8"						NO DIVERSION							
J. I. Nix	15.8L	1-4"						NO DIVERSION							
Ralph Nix	15.9L	1-6"						NO DIVERSION							
--WILTON ROAD BRIDGE--	16.8														
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	16.8														
George D. Beltzel	18.2R	1-12"						1	57	132	95	7			292
Bradley Ranch b	18.55R	1-16"						3	32	155	62	5			257
Bradley Ranch	18.9R	1-6"						PLANT REMOVED							
Bright Estate	20.1R	1-10"						252	512	390	370	84			1608
F. Barbero	21.6L	1-6"						NO DIVERSION							
J. P. Patterson	21.9R	1-6"						NO DIVERSION							
E. Clemens Horst Company b	22.0R	1-14"							36	74	53	5			166
Rooney Brothers	23.7R	1-12"					46			111	68				215
Rooney and Grimshaw	24.4R	1-8"					10			69	17				96
Francis Rooney	24.5R	1-12"					1			46	32				79
--DILLARD ROAD BRIDGE--	24.8														
--RECORDING GAGE-COSUMNES RIVER NEAR SLOUGHHOUSE--	24.85														
P. Waterberg	25.5R	1-10"						5	79	98	50	27			259
A. V. Signorotti	25.7R	1-3"						NO DIVERSION							
F. M. Grimshaw	25.9R	1-8"						NO DIVERSION							
A. V. Signorotti	26.3R	1-5"								13	12				25
F. M. Grimshaw	26.4R	1-6"						NO DIVERSION							
O. C. Johnson	26.5L	1-6"						NO DIVERSION							
O. C. Johnson	27.3L	1-5"						6	101	79	47	9			242
Robert B. Mearns	27.6R	1-7"						1	19	15	49	37	20		141
P. Silva, Jr.	27.8L	1-6" 1-8"						8	119	73					200
Robert B. Mearns	28.6R	1-8"						2	29	58	62	49	33	22	255
Schneider Ranch	30.0L	1-8"					29	54	45	67	111	110	105	71	592
Schneider Ranch	30.6L	1-10"					49	33	26	80	160	180	111	13	652
--STATE HIGHWAY 16 BRIDGE--	31.3														
A. Granlees	32.6R	1-4"						2	45	90	89	73	44	26	369
--GRANLEES DAM--	33.0														
Cosumnes River Irrigation Association	33.0R	Gravity	168	56	50	46	75	429	747	929	528	391	213	176	3808
--GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR--	34.3														
COSUMNES RIVER															
Total			174	56	130	126	259	1139	2934	3458	2987	1969	828	440	14500
Average cubic feet per second			3	1	2	2	4	19	48	58	49	32	14	7	20
Monthly use in percent of seasonal			1.2	0.4	0.9	0.9	1.8	7.9	20.2	23.8	20.6	13.6	5.7	3.0	

* Diversions shown in this table below the McConnell Gaging Station are considered as Delta Uplands Diversions. Tidal effect ceases at about Mile 3.5.

a Installed prior to 1961. Not previously listed.
b New installation in 1961.
c Includes an undetermined amount of spill to the Cosumnes River.

TABLE 206

DIVERSIONS - MOKELUMNE RIVER*

November 1960 through October 1961

Water User	Mile and Bank o o	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversions Nov -Oct. Acre-Feet
			Nov	Dec.	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
Clow and Rose	4.7R	1-12"							18	57	91	85	16		267
--FRANKLIN-THORNTON NIGHWAY BRIDGE--	4.9														
--COSUMNES RIVER--	5.0R														
--WESTERN PACIFIC RAILROAD BRIDGE--	5.4														
Manuel Lopes	6.6R	1-12"					2	7	89	24	87	74	72	6	361
Thornton-Fry Ranches	6.9R	1-8"						NO DIVERSION							
--GALT-THORNTON NIGHWAY BRIDGE--	7.0														
Thornton-Fry Ranches	7.6R	2-12"					66	172	1010	1040	1090	1060	202	14	4654
Thornton-Fry Ranches	8.1R	1-12"							5	16	31	21	3		76
Albin O. Steffan	8.7R	1-12"						78	133	143	132	135	90	30	741
S. and J. Prandy	10.4L	1-12"							23						23
Albin O. Steffan	10.6R	1-16"						92	105	132	132	119	180	98	858
Albin O. Steffan	12.7R	1-12"						241	404	437	397	409	348	197	2433
Al Sarti	12.7L	a 1-5"								13	4	3	1		21
A. Taddei	14.2R	1-6"						NO DIVERSION							
C. Blattler	15.5R	1-4"					1	9	12	10	11	8	7	6	64
A. Taddei	15.6R	1-6"	30		26			15	21	22	44	27	9	2	196
Mrs. Rose J. Linde	16.8R	1-6"						104	29	44	67	19			263
--GAGINO STATION - MOKELUMNE RIVER AT WOODBRIDGE--	19.2														
--SACRAMENTO ROAD BRIDGE--	19.8														
--WOODBRIDGE IRRIGATION DISTRICT OAM--	19.9														
Woodbridge Irrigation District	19.9L	Gravity	1530				2380	4290	5490	11650	11250	10600	7980	5650	61820
LeMoin Beckman	21.1L	1-5"						NO DIVERSION							
Arthur J. Hoffman	21.85R	1-6"						23	22						45
Sidney Nalsey	22.5R	1-2" 1-5"								10	15	10			35
Howard Mason	22.7L							PLANT REMOVED							
Cecil V. and Evelyn P. Mumbert	23.4R	1-4"						1	17	34	26	3			81
L. R. Sanguinetti	23.4L	b 1-5"								7	4	4	3		18
Paul A. O'Mara c	23.5R	1-4"						NO DIVERSION							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6														
Ben Bechthold	24.0L	1-4"						30	4	5	13	3	1		56
--HIGHWAY 99 BRIOGE--	24.2														
Litts, Mullen and Perovich	24.45L	1-5"								10	7				17
Lawrence Ranch	24.5L	1-6" 1-10"						17	10	189	255	40			511
S. and M. Miller	24.8L	1-6"							3	3	4	5	4	3	22
Ray A. Nettler	25.3R	1-10"						66	72	30	22	5	6		204
Eastside Winery	25.5L	1-4"						NO DIVERSION							
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6														
Robert N. Lind	26.3L	1-5"					2	17	2	10	10	8	0	18	67
Richard Wagers	26.35L	1-4"						1	2	2	3	3	2	1	14
Truman Sabins	26.9R	1-5"								32	37	17			86
Irene Green	27.1L	1-5"						8	68	76	40	11			203
Mrs. Rose J. Linde	27.6L	1-8"							14	12	14	3			43
A. E. Jones	27.7L	1-10"			36	160	44	56	92						388
Nakagawa Brothers	28.4R	1-5"						NO DIVERSION							
Frankie G. Dick	28.5L	1-8"									4	3			7
Nakagawa Brothers	28.6R	1-6"						23	44	104	128	83	35	14	421
L. J. Peterson	28.9L	1-4"						PLANT REMOVED							
W. E. Mohaff	29.9R	1-8"						24	88		5	9			126
E. Bender	30.1L	1-10"						13	32	22	11	19	19		116
--BRUELLA ROAD BRIDGE--	30.[illegible]														
V. W. Hoffman and Sons	30.15R	1-8"					62	28	22	51	72	66	25		326
N. H. D[illegible]	30.[illegible]R	1-[illegible]						23	12	20	20	17			92
J. J. Schmidt	30.95L	1-7"						1	12	52	36	22	1		124
Leon Kirchheimer and Leonard Frazier, et al	31.0L	1-8"	3	1			38	46	65	32	23	15	3		226
V. W. Hoffman and Sons	31.4R	1-[illegible]							1[illegible]	59	44	8			126
Rena D. [illegible]ule	31.7L	1-5"						PLANT REMOVED							
John Graffigna	31.8R	1-7"							[illegible]	26	13	14	17	1	74

TABLE 206

DIVERSIONS - MOKELUMNE RIVER* (contd.)

November 1960 through October 1961

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	
Jones Ranch	32.0L	1-6"						NO DIVERSION							
North San Joaquin Water Conservation District	32.3L	1-12" 1-18"						NO DIVERSION							
L. J. Peterson	32.5L	1-5"						8	18	16	24	22	8	10	106
Red Checker Ranch	32.75R	1-5"						PLANT REMOVED							
C. M. Locke	33.25L	1-10"					4	38	64	42	25				173
Acampo Vineyards	33.45R	1-8"						12	5	6	11	9			43
Acampo Vineyards	33.6R	1-8"					6	49	20	36	56	27			194
Niel C. Locke	33.7L	1-12"						3	27	104	225	174	112		645
T. and E. Schmierer	33.8R	1-4"	3					6	7	9	10	7	9	5	56
R. T. McCarty	34.0L	1-8"							11	77	51	37	19		195
Pritam Singh Dhaliwal	34.05R	1-4"						5	7	7	2				21
Norman Knoll	34.1R	1-4"						15	8	25	13	18	2		81
Norman Knoll	34.3R	1-4"					1	20	9	17	12	9	2		70
--COUNTY ROAD BRIDGE--	34.35														
J. B. Ward	34.5R	1-4"						1	6	25	19	16	7		74
H. C. Russell d	34.55L	1-10"						6	6	7	7	3			29
Kenneth H. Beckman	34.6R	1-5"						NO DIVERSION							
R. C. Russell	34.75L	1-12"						28	54	100	128	103	58		471
E. R. Thomas	35.15R	1-6"						6	45	111	143	100	39	20	464
Don Locke	35.2L	1-8"					17	22	46	45	50	62	3	10	255
Manuel Machedo	35.4L	1-8"					1	44	59	58	55	33	22	1	273
Boyce Van Patten	35.5R	1-8"								34	175	189			398
Dr. Raymond Mehlhaff	35.7L	1-6"						14	45	42	52	56	37	10	256
I. H. Quessenberry	35.9L	1-7"	5				5	22	34	48	28	38	33		213
W. S. Montgomery	36.0L	1-6"						37	21	51	76	71	36	18	310
Boyce Van Patten	36.2R	1-6"								58	98	122			278
Mrs. Ossie Parker	36.45L	1-12"						91	109	107	134	153	54	4	652
J. R. Wiederrich	37.15L	1-10" e 1-4"						7	7	34	22	34			104
W. L. Moffat	37.45R	1-8"		16	16						62	36	15		145
W. L. Moffat	37.65L	1-10"							3	19	6	13			41
Costa Estate	37.7R	1-12"						11	17	25	19	22			94
C. and F. Sanguinetti	38.0L	2-6"			1					22	6	31	2		62
C. and F. Sanguinetti	38.1L	1-8"			23			27	42	50	23	55	32	7	259
Rudolph Sutter	38.3L	1-10"						18	30	63	82	51	32	6	282
Gertrude W. Chrisman	38.5L	1-12"								4	42	40	30	2	118
Clements Estate	39.0L	1-12"	44	13	14	12	13	188	136	197	129	128	121	87	1082
McGee Ranch	39.25L	1-5"								6	8	6	2		22
--HIGHWAY 88 BRIDGE--	39.3														
--GAGING STATION - MOKELUMNE RIVER NEAR CLEMENTS--	39.35														
MOKELUMNE RIVER Totals			1615	30	116	172	2642	6063	8772	15820	15940	14590	10700	6220	82680
Average cubic feet per second			27	0	2	3	43	102	143	266	259	237	180	101	114
Monthly use in percent of seasonal			2.0	0.0	0.1	0.2	3.2	7.3	10.6	19.1	19.3	17.7	13.0	7.5	

* Diversions shown in this table below the Woodbridge Gaging Station are considered as Delta Uplands Diversions. Left bank diversions into Reclamation District 348 (below Mile 9.8) and right bank diversions into McCormack-Williamson Tract (below Mile 3.5) are not included since these areas are considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 10.5.

** Mile and bank above New Hope Bridge.

a A 5" unit moved from Mile 32.75R in 1961.
b Formerly listed as a 6" unit.
c Formerly listed as M. M. Bender.
d Formerly listed as E. L. Corwin & Son.
e The 4" pump is a portable unit.

TABLE 207

DIVERSIONS - CALAVERAS RIVER*

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov. -Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Inman Realty Company	.8L	1-12"						NO DIVERSION							
Clair E. Heitman	2.2L	1-4"					1	1	1	1	1	1			6
Weiershauser, Ghiorzo and Pichardo	2.5R	1-12"									19	11	15	1	46
John Santa Maria	2.9L	1-4"						2	2	3	*	1	2	1	14
--PACIFIC AVENUE BRIDGE--	3.7														
Charles M. Weber	4.4R	2-6"						NO DIVERSION							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	5.3														
--STOCKTON DIVERTING CANAL--	5.4L														
Roy M Reese	5.7L	1-14"						NO DIVERSION							
Claude Moreso	6.0L	1-5"						NO DIVERSION							
A. Toso	6.1L	1-4"								8					8
--U. S. 50 AND 99 HIGHWAY BRIDGE--	6.8														
--GAGING STATION - CALAVERAS RIVER NEAR STOCKTON--	7.1														
--CHERRYLAND ROAD DAM--	7.3														
A. Vignolo and Son	7.3L	1-12"								9					9
V. C. Blakley a	7.4L	1-2½"													
J. L. Filipelli a	7.6L	1-10"													
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	7.9														
J. N. Sanguinetti a	8.3L	1-6"													
A. V. Lagorio a	8.5L	1-6"													
--SOLARI ROAD BRIDGE--	8.8														
--SOLARI ROAD DAM--	8.85														
E. Leonardini a	9.1R	1-4"													
Uyeda Brothers	9.9L	1-6"								2					2
Rugani Brothers	9.9R	1-6"								9					9
Fred Podesta, Jr.	10.1R	1-8"								11					11
N. and R. Sanguinetti	10.2R	1-8"								15					15
--ALPINE ROAD BRIDGE--	10.6														
John B. Garibaldi	11.0L	1-5"								9					9
John Arata a	11.2L	1-5"													
Irene Saccone	11.4L	b 1-5"						NO DIVERSION							
Frank Solari	11.4R	1-6"								28					28
--PEZZI DAM--	11.8														
Julia Pezzi and Sons a	11.8R	Gravity													
Julia Pezzi and Sons a	11.82L	Gravity													
Julia Pezzi and Sons a	11.85L	Gravity													
A. Navone	11.85R	Gravity													
Julia Pezzi and Sons a	11.95L	Gravity													
A. Navone a	11.95R	Gravity													
Julia Pezzi and Sons a	12.0L	Gravity													
Julia Pezzi and Sons a	12.05L	Gravity													
Julia Pezzi and Sons a	12.1L	Gravity													
Julia Pezzi and Sons	12.15L	1-7"								54					54
--MURPHY DAM--	12.3														
S. Sciutti a	12.3L	Gravity													
L. Freggiaro and Son a	12.3R	Gravity													
Tony Pastore a	12.35L	Gravity													
O. Freggiaro and Son a	12.39R	Gravity													
O. Freggiaro and Son a	12.41R	Gravity													
C. Bova and Son a	12.42R	Gravity													
Vic Freggiaro a	12.44N	Gravity													
Vic Freggiaro a	12.45R	Gravity													
Vic Freggiaro a	12.5N	Gravity													
Tony Pastore a	12.5L	Gravity													
Tony Pastore a	12.6L	Gravity													
Vic Freggiaro a	12.6R	Gravity													
--STATE HIGHWAY 88 BRIDGE--	12.7														
Tony Pastore a	12.8L	Gravity													
Percy Pope a	12.9R	Gravity													
Ed O. Brandstad	13.6R	1-6"								11					11
Fred Podesta a	13.9L	1-14"													

TABLE 207

DIVERSIONS - CALAVERAS RIVER* (Contd.)

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Dewey Leffler	1*.9R	1-8"						NO DIVERSION							
N. Tassano a	14.0R	1-8"													
Henry Foppiano a	14.1L	1-5"													
J. Schiaffini a	14.4R	1-4"													
Angelo Grattone	14.5R	1-12"								126					126
--EIGHT MILE ROAD BRIDGE--	14.55														
--EIGHT MILE ROAD DAM--	14.7														
L. and R. DeVincenzi	14.8R	1-6"								36					36
Dave V. Sanguinetti	15.1L	1-5"								17					17
A. Girardi	15.4R	1-12"						NO DIVERSION							
J. H. Tone	15.7L	1-10"								28					28
--JACK TONE ROAD BRIDGE--	15.8														
John Plotz	16.0R	1-5"								3					3
L. A. Cademartori	16.2L	1-5"								29					29
Joe Phillips a	16.5L	1-6"													
C. Paoletti a	16.6L	1-5"													
E. G. Guthrey a	16.65R	1-5"													
Reno Paoletti a	16.7L	1-4"													
Lawrence Zolezzi	16.8L	1-6"								17					17
Mario and John Boggiano	17.3L	1-10"						NO DIVERSION							
E. H. Ladd a	17.3R	1-10"													
George Hansen	17.6R	1-8"						NO DIVERSION							
--TULLY ROAD BRIDGE--	17.8														
--TULLY ROAD DAM--	17.85														
Steve Solari	18.4L	1-8"								30					30
Rugani Brothers	18.5L	1-8"								11					11
Joe Landoni	19.3R	1-5"								11					11
E. F. Messick Estate a	19.8R	1-5"													
B. E. Stagnaro	19.8L	1-8"								30					30
A. Delucchi a	19.9L	1-4"													
L. Vaccarezza a	20.1L	1-5"													
E. Brennan	20.3L	1-10"								41					41
G. Pacini a	20.4L	1-3"													
Edward Ginnecchini a	20.6L	1-5"													
R. S. and A. R. Guernsey	20.9R	1-8"								31					31
F. and M. Arboco	21.0L	1-4"								2					2
Frank Giannecchini a	21.01L	1-5"													
--CLEMENTS ROAD BRIDGE AND DAM--	21.1														
E. M. Marciano and D. Canepa	21.1L	Gravity													
Albert Metzler a	21.11L	Gravity													
R. A. Lundblad a	21.35R	1-8"													
D. Giordano a	21.4L	1-4"													
Domonick Pigone a	21.5L	1-5"													
--NORTH SLOUGH--	21.6R														
--NORTH SLOUGH CONTROL GATES**--	**(0.0)														
F. Harrison a	**(1.3L)	1-4"													
L. Robinson a	**(1.3R)	1-3"													
S. Filippone a	**(1.8L)	1-4"													
Webster Ranch	**(1.81L)	1-12"								67					67
Webster Ranch	**(2.6R)	1-12"						30	58	118	94	68	56	33	457
W. G. Fisher	**(4.1L)	1-9"						NO DIVERSION							
--TULLY ROAD BRIDGE--	**(4.2)														
J. R. Tone	**(6.0R)	1-10"					1	13	9	48	59	29	11		170
A. Girardi	**(6.1L)	1-16"						NO DIVERSION							
Lyons Brothers	**(6.6R)	1-10"						19	20	86	7	34	16	3	185
Lucky Ranch	**(7.3L)	1-6"						5	13	36	25	10	4		93
A. G. Steltzner	**(7.3R)	1-10"						NO DIVERSION							
J. W. Hannah, Jr. a	**(7.8L)	1-8"													
--STATE HIGHWAY 88 BRIDGE--	**(8.1)														
A. G. Steltzner a	**(8.1R)	1-6"													
W. C. Leffler	**(10.3L)	1-4"						NO DIVERSION							
W. C. Leffler	**(11.5L)	1-10"								19					19

TABLE 207

DIVERSIONS - CALAVERAS RIVER* (contd.)

November 1960 through October 1961

Water User	Miles and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
Webster Ranch	21.7R	1-8"								39					39
P. C. D. Ranch	21.9R	1-8"								22					22
Andrew Cuneo	22.0L	1-12"								73					73
Nick Genetti a	22.1L	1-4"													
Joe DeMartini	22.2R	1-8"								18					18
Carr 11 and Anderson	22.3L	1-8"								56					56
John Boggian	22.4R	1-10"								22					22
Caesar DeMartini	22.7R	1-12"								16					16
Tasaana Ranch	22.9L	1-8"								11					11
Frank DeBenedetti	23.1L	1-7"								4					4
Fred Podesta	d 24.1R	e 1-16"								133					133
Fred Podesta	24.4L	1-12"								80					80
--STATE HIGHWAY 8 BRIDGE--	25.2														
--GAGING STATION - CALAVERAS RIVER AT BELLOTA--	25.25														
--CALAVERAS RIVER - MORMON SLOUGH CONTROL GATES--	25.28														
John Armanino and Sons	25.3R	1-10"								52					52
D. Creary a	25.3L	1-2½"													
--MORMON SLOUGH--	25.3L														
--GAGING STATION - MORMON SLOUGH AT BELLOTA--	8(0.05)														
--FARMINGTON - BELLOTA COUNTY ROAD BRIDGE--	8(0.2)														
J. G. Watkins	8(0.3R)	1-8"								14					14
Angelo S lari	8(0.5L)	1-8"								76					76
Fred DeBenedetti f	8(0.9L)	1-6"							9	15	7				31
George G. Watkins a	8(1.2L)	1-6"													
John, Louis and Mario Boggiano	8(1.4R)	1-12"								104					104
Sam Motolke a	8(1.5L)	1-8"													
Raymond Motolke a	8(1.7L)	1-6"													
E. Marugliano	8(2.0R)	1-7"								25					25
C. and F. Sanguinetti	8(2.0L)	1-8"						NO DIVERSION							
Estella M. Ryburn	8(2.5L)	1-10"								34					34
--FINE ROAD BRIDGE--	8(2.7)														
Julia Pezzi and Sons	8(3.3L)	1-8"						NO DIVERSION							
Caesar DeMartini	8(3.4R)	1-10"						NO DIVERSION							
John Avansino a	8(3.5L)	1-4"													
Louis J. Lagorio	8(3.6R)	1-6"								21					21
Ray Lagorio a	8(3.7R)	1-8"													
Tony Candolfo g	8(4.0L)	1-6"								17					17
P. W. Le nardini	8(4.1L)	1-2" 1-7"								43					43
Bertha E. Case a	8(4.4L)	1-8"													
Nick Bonino	8(5.5L)	1-10"								45					45
John A. Lagorio a	8(5.8L)	1-7"													
M ike Brothers	8(6.1L)	1-6"								16					16
C. Piazza a	8(6.2R)	1-6"													
John Ratt a	8(6.7R)	1-5"													
D nderc Brothers a	8(6.9R)	1-8"													
A. and R. Lagorio and A. and J. C ffere	8(6.9L)	1-8"								4					4
Prato Brother a	8(7.2R)	1-6"													
A. and R. Lagorio and A. and J. Caffere	8(7.2L)	1-8"								6					6
Mapes Brothers	8(7.5R)	1-6"								8					8
D. Pa letti nd Son a	8(7.8R)	1-6"													
--COPPEROPOLIS ROAD BRIDGE--	8(7.8)														
Smyth , Van Dyke Company	8(8.4L)	1-16"						NO DIVERSION							
J. Quetrel a	8(8.9L)	1-6"													
A. Migl	8(10. L)	1-8"								25					25
E. M. W lker	8(10.0H)	1-5"													
M. Lavaggi	8(10.5L)	1-8"								14					14
Ralph Pan lla	8(1 .7R)	1-8"								52					52
Ralph Panella a	8(11.6L)	1-6"													
Nick Genetti, Jr.	8(11.6R)	1- "													
G. B. Ghi rza a	8(11.7R)	1-5"													

TABLE 207

DIVERSIONS - CALAVERAS RIVER• (contd.)

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct	
Frank C. Raffel	8(11.9L)	1-6"								26					26
A. Oogna a	8(12.4R)	1-5"													
A. Solari and Sons	8(12.5L)	1-4"						NO DIVERSION							
Amerigo Cortopassi a	8(12.6L)	1-4"													
G. Caffese and Sons	8(12.8R)	1-7"								9					9
--STOCKTON DIVERTING CANAL--	8(13.0)														
Riddle Estate a	88(13.3R)	1-6"													
Riddle Estate a	88(13.7R)	1-6"													
--STATE HIGHWAY 8 BRIDGE--	88(14.9)														
D. Gambini a	88(15.4R)	1-6"													
Budiselich and Boggiano Brothers	88(15.7R)	2-12"								1					1
--U. S. 50 AND 99 HIGHWAY (FREEWAY) BRIDGE--	88(16.0)														
--GAGING STATION - STOCKTON DIVERTING CANAL AT STOCKTON--	88(16.2)														
--U. S. 50 AND HIGHWAY BRIDGE--	88(17.2)														
Albert A. Anderson	25.5L	1-12"								74					74
L. F. Grimsley, Inc.	25.9L	1-16"								68					68
Vignalo and Pallavicino	26.3R	1-10"								36					36
Field Brothers	26.8L	1-10"								56					56
McGurk Ranch	26.8R	1-8"								37					37
Saverio Nogare a	27.2R	1-12"													
Saverio Nogare	27.5L	1-10"						NO DIVERSION							
E. E. Cady a	28.3L	1-6"													
Ray Lagorio a	28.5L	1-8"													
R. T. and A. V. Lagorio a	28.9L	1-10"													
Garavano and Maffeo	29.0L	1-6"								47					47
O. R. Shelley	29.2R	1-6"							14	14	11	13	5		57
O. R. Shelley	29.3L	1-10"								30					30
M. N. Yocum	29.4L	1-8"								28					28
Kenneth O. Watkins	30.1R	1-10"			64	57	19			162					302
--BELLOTA RIVER ROAD BRIDGE--	30.4														
L. and D. Hoag	30.6R	1-14"								40					40
Lynn Barnett a	30.7R	1-7"													
Lois E. Hunt	31.1R	1-10"							2	47			10		59
Leslie M. Gregory	31.3R	1-8"					49	61	29	57	8	1	4		209
Emmet Gregory a	31.6R	1-6"													
Donald Hunt h	32.5R	1-6"						36	21	26	27	13	12	5	130
Donald Hunt h	32.6L	1-8"							12	149	1		88	11	261
--GAGING STATION - CALAVERAS RIVER AT JENNY LIND--	36.9														
CALAVERAS RIVER Totals			0	0	64	57	70	157	190	2878	262	181	223	54	4136
Average cubic feet per second			0	0	1	1	1	3	3	48	4	3	4	1	6
Monthly use in percent of seasonal			0.0	0.0	1.5	1.4	1.7	3.8	4.6	69.6	6.3	4.4	5.4	1.3	

• Diversions shown in this table below the Stockton gaging station are considered as Delta Uplands diversions. Right bank diversions below Mile 2.0 and left bank diversions below Mile 0.7 are not included since they serve areas that are considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 5.0.

•• North Slough - North Slough diverts from Calaveras River at Mile 21.6R. Distance from Calaveras River and bank is shown in parentheses.

8 Mormon Slough - Mormon Slough diverts from Calaveras River at Mile 25.3L, and rejoins the river through Stockton Diverting Canal. Distance from Calaveras River and bank is shown in parentheses.

88 Stockton Diverting Canal - Stockton Diverting Canal diverts from Mormon Slough at Mile 8(13.0) and rejoins the Calaveras River at Mile 5.4L. Distance from Calaveras River and bank is shown in parentheses.

a This diversion dropped due to a cutback in the diversion program. This cutback necessitated the dropping of approximately 50 percent of the diversion points on this stream.

b Formerly listed as a 4" unit.

c Formerly listed as a gravity.

d Formerly listed on Left bank.

e Formerly listed as a 12" unit.

f Formerly listed as Fred Casella.

g Formerly listed as F. W. Leonardini.

h Formerly listed as Eva Hunt.

TABLE 208

DIVERSIONS - DELTA UPLANDS

(Old River, Tom Paine Slough, and French Camp Slough)
November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
OLD RIVER	•														
--CONTRA COSTA CANAL--	30.5L														
John A. Bettencourt	a 30.5L	1-18"		1	1	6		105	108	171	152	19	1	4	[illegible]
Augustus Sarija	b 36.5L	2-6"					11	38	41	55	5	51	2	2	[illegible]
East Contra Costa Irrigation District	b 36.5L	1-18" 3-24" 2-30"					501	5860	5190	7300	7950	7650	3 60	3 6	37
--STATE HIGHWAY 4 BRIDGE--	38.8														
Byron-Bethany Irrigation District	c 40.9L	1-20" 1-24" 2-30"	2	30			1570	5380	5510	7280	805	8100	4480	4	8
--GAGING STATION - OLD RIVER AT CLIFTON COURT FERRY--	44.0L														
--DELTA MENDOTA CANAL--	44.6L														
M. R. Furtado	d 44.6L	1-14"					149	131	141	202	187	256	108	44	121
J. R. Colburn and Fred N. Draper	44.7L	1-8"					24	26	30	44	57	40	27	6	54
William M. Ralph	e 45.3L	1-12"					184	184	150	262	289	206	38	102	1619
C. O. Bankhead and Sons	f 47.2L	1-16"					128	40	115	216	466	441	172	147	1725
Lucio J. Costa	f 47.2L	1-14"					1	287	166	132	156	172	212	4	1130
Johnnie L. Costa	d 47.65L	1-8"					58	36		37	74	66	29		300
West Side Irrigation District	d 47.65L	1-10" 7-15" 1-18"					3460	5650	4530	6300	6570	6120	4020	1490	38140
Vance Brown	48.4L	1-12"					41	80	43	81	102	59	84	21	511
Salles Brothers	49.5L	1-4"						1	1	4	1	1	1	1	12
Naglee Burke Irrigation District	50.4L	1-16" 1-18"					745	1490	1380	1910	2070	1900	1330	425	11250
Fremont Irrigation Association	50.9L	1-16"		194	14	25	263	263	208	338	395	303	105	98	2206
Joe M. Freitas	51.0L	1-18"						53			8	3	16		60
Attilio Casserini	51.2L	1-10"						NO DIVERSION							
E. Platti, J. Goulardt, and T. Silveira	52.4L	1-10"					29	61	28	78	76	61	33		366
--TRACY ROAD BRIDGE--	52.8														
--GAGING STATION-OLD RIVER NEAR TRACY ROAD BRIDGE--	52.8R														
A. L. Galli	53.0L	1-8"			20	8				11					39
--MOUTH OF TOM PAINE SLOUGH--	54.3L														
OLD RIVER Totals			2	225	35	39	7164	19660	17640	24420	26660	25620	14260	6153	141900
Average cubic feet per second			0	4	1	1	117	330	287	410	434	417	240	100	196
TOM PAINE SLOUGH	••														
Independent Mutual Water Corporation and Company	0.7S	2-18"		28	632		254	386	267	429	602	562	273	30	3461
Independent Mutual Water Corporation and Company	1.5S	1-18"			164		38	73	66	99	96	202	58		796
--HOLLY SUGAR CORPORATION DREDGER CUT--	8 2.1S														
George J. Lake	8(0.5W)	1-10"		105	8						135				248
Holly Sugar Corporation	8(1.2W)	1-14"						30	85	242	162	96			615
Holly Sugar Corporation	8(1.55W)	1-12"						INDUSTRIAL USE ONLY							
--GAGING STATION - TOM PAINE SLOUGH ABOVE MOUTH--	2.2S														
--MACARTHUR DRIVE BRIDGE--	2.7														
Pescadero Reclamation District 2058 (#1)	2.9S	1-12"		1	80	17	62	107	94	171	135	142	116	32	957
--LAUREL AVENUE BRIDGE--	3.7														
Frank Bastian	4.3S	1-5"					23	30	30	33	29	35	16		196
--PARADISE ROAD BRIDGE--	6.0														
Pescadero Reclamation District 2058 (#2)	6.3S	1-12" 1-20" 1-24"					1390	2180	1790	2680	2850	2730	2130	817	16570
--MAPLE AVENUE BRIDGE--	7.0														
Pescadero Reclamation District 2058 (#3)	8.3S	1-12"				23	112	180	139	301	277	221	61	6	1320
--CALIFORNIA AVENUE BRIDGE--	8.8														
Pescadero Reclamation District 2058 (#6)	9.0N	1-16" 1-18"					94	127	227	201	355	225	186	22	1435
TOM PAINE SLOUGH Totals			0	134	884	40	1973	3113	2698	4156	4641	4213	2844	907	25600
Average cubic feet per second			0	2	14	1	32	52	44	70	75	68	48	15	35

TABLE 208

DIVERSIONS - DELTA UPLANDS
(Old River, Tom Paine Slough, and French Camp Slough) (contd.)
November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
FRENCH CAMP SLOUGH	•••														
Carolyn Weston	1.05L	1-12"						8	98	85	162	95			448
Carolyn Weston	1.4L	1-6"						6		3	4				13
Carolyn Weston	1.45L	1-6"					1	15	3	39	29	22	33	17	159
--FRENCH CAMP TURNPIKE--	2.0														
Frank West	2.2L	1-10"					73	176	380	29	327	260	221	61	1527
Manuel S. Granados	2.3R	1-3"							1	1	1	1			4
Frank West	3.0L	1-10"					39	85	49	57	96	94	60	29	509
Tom Oomes	3.3L	1-5'						NO DIVERSION							
Tom Oomes	3.4L	1-4"						NO DIVERSION							
--U. S. 50 HIGHWAY--	3.45														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.6														
Milton O. Boege	3.8L	1-8"						NO DIVERSION							
Robert L. Bordenave	3.8R	1-12"							28	59	78	49			214
--WESTERN PACIFIC RAILROAD BRIDGE--	4.1														
Clark Anderson	4.2R	1-14"						NO DIVERSION							
--GAGING STATION-FRENCH CAMP SLOUGH NEAR FRENCH CAMP--	5.4														
FRENCH CAMP SLOUGH Totals			0	0	0	0	113	290	559	273	697	521	314	107	2874
Average cubic feet per second			0	0	0	0	2	5	9	5	11	8	5	2	4

* Mileage along Old San Joaquin River from mouth of San Joaquin River 4½ miles below Antioch.
** Mileage along Tom Paine Slough from its mouth at Mile 54.3L on Old San Joaquin River.
*** Mile and bank above mouth.
d Holly Sugar Corporation Dredger Cut joins Tom Paine Slough at Mile 2.1S. Distance along Dredger Cut and bank is shown in parentheses.
a Rock Slough joins Old San Joaquin River at Mile 30.5L. Pumping plant is located on intake canal which joins Rock Slough.
b Indian Slough joins Old San Joaquin River at Mile 36.5L. Pumping plant is located on intake canal which joins Indian Slough.
c Italian Slough joins Old San Joaquin River at Mile 40.9L. Pumping plant is located on intake canal which joins Italian Slough.
d Plant is located on intake canal which joins the Old San Joaquin River at this mile.
e New installation in February 1961.
f Plant is located on Mountain House Creek which joins the Old San Joaquin River at this mile.
g Includes an undetermined amount of water returned to the river by spill.

TABLE 209

DIVERSIONS - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)
November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
--STATE HIGHWAY 4 BRIDGE--	45.3														
--FRENCH CAMP SLOUGH--	46.1R														
Carolyn Weston	46.2R	1-6"								17	1	8	16		42
Carolyn Weston	46.3R	1-12"		2				142	52	167	146	127	63		699
Mrs. John Lillie	46.65R	1-10"					3	146	1	53	63	32	3		301
Frank West	46.85R	1-10"						143		138	79	125	90		575
F. Asano	47.2R	1-6"	3				4	17	7	10	20	13	7	5	86
Wolfinger Brothers	47.3R	1-10"					19	21	41	16	38	31			166
C. C. Long	47.55R	1-10"					22	65	95	203	186	146	18		735
Waldo C. Haack	48.0R	1-14"				20		40		29	32	31	34		186
Waldo C. Haack	48.1R	1-14"	2			94	87	224	269	185	366	194	65		1686
Chow L. Young	48.3R	1-6"						1		19	15	8	1		44
Joe Calcagno	48.5R	1-8"					11	1	31	36	70	43	24		216
C. J. Pregno	48.55R	1-6"					7		10	13	22	10	10		72
John Calcagno	48.66R	1-12"				1	54	62	34	74	118	96	39	2	480
Alfred Rodgers	49.0R	1-12"	11	3	2	3	10	26	61	28	79	74	50	37	384
Ray Muller and P. Terry	49.3R	1-14"	2	1			90	87	118	24	447	194	215	7	1404
Ray Muller and P. Terry	49.5R	1-12"									4				4
A. A. Rodgers	50.1R	1-10"					8	26	34	30	49	72	6	9	234
--GAGING STATION-SAN JOAQUIN RIVER AT BRANDT BRIDGE--	50.2														
A. Hirata	50.4R	1-10"					6	30	35	42	33	32	24	2	204
K. R. and F. Watanabe	50.6R	1-6"						54	28	45	42	47	24		220
O. Tasano	50.6R	1-6"						15	8	10	22	28	13		96
Pastorino Brothers	50.9R	1-12'						20	168	80	142	91	72	95	668
Pelipe Esteban	51.2R	1-12"						26	18	38	53	45	1		181
W. B. Herbert and Y. B. Lawrence	51.6R	1-10"					29	72	23	63	80	73	8		348
A. McNamara, K. McNamara and Betty French	52.4R	1-5						5	1	1	4	4	1		16
E. P. Valla	52.65R	1-10"					27	31	6		66	82			212

TABLE 209

DIVERSIONS - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (Contd.)

November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
J. Widmer	57.2R	1-16"				1	127	177	142	244	376	278	207	79	1631
J. Widmer	57.45R	1-12"					22	17	8	8	28	10	5		98
Julio Lorenzo	57.5R	1-8"					4	2	5	12	12	6			41
Mark Sung	57.55R	1-2"						DOMESTIC USE ONLY							
John Caparra	57.6R	1-4"					2	8	4	7	8	1		8	37
J. Romo and B. Anday	57.7R	1-14'		2			24	67	61	271	228	175	80	45	961
I. N. Robinson Jr.	57.8R	1-14'	7	1		24	94	100	335	291	261	331	233	66	1767
H. N. Hansen, M. C. H[illegible] and William Giger	57.9R	1-10"	24	*				93	137	127	139	147	144	110	921
--JUNCTION WITH MIDDLE RIVER--															
Oakwood Stock Farm	57.0R	1-14'						203	213	454	473	442	449	81	2274
Ernest Wennhold and Ray Thieke	57.15R	1-7"						11	18	23	16	15	13		106
A. J. Thomsen	57.19R	1-5"					21	23	1	22	34				101
Andrew B. Cabral	57.45R	1-6"						9		17	1	13			40
O. Cardella	57.5R	1-4"				3	11	2	1	7	8	1	1	1	37
A. Queiroz	57.6R	1-4"							7	7	6	1			21
Tony Maur[illegible]	57.7R	1-6"							6	5	1				12
--SOUTHERN PACIFIC RAILROAD BRIDGE--	57.8														
--GAGING STATION - SAN JOAQUIN RIVER AT MOSSDALE BRIDGE--	57.9														
--U. S. 50 HIGHWAY BRIDGE--	58.9														
Libby, Owens, Ford	59.25R	1-6"								11	62	51	10		134
M. H. Madruga	59.3R	1-15"					6	93	24	244	400	286	57	40	1150
Eugene J. Rossi, et al.	59.5L	1-14'					58	39	69	173	206	130	10	107	792
--WESTERN PACIFIC RAILROAD BRIDGE--	59.5														
M. H. Madruga	a 60.1R	1-6"								28	53	29			110
O. M. Baird	a 60.1R	1-16"					225	168	157	329	242	235	163	107	1626
James and Leslie Little	60.4L	1-3"						NO DIVERSION							
A. P. Windeler	60.5L	1-16"					108	57	90	148	160	182	32	88	865
E. Picchi and Son	60.8R	1-8"		35	63					32	46				b 176
E. Picchi and Son	61.4R	1-12"		4	134	22	34	36	67	90	212	132			b 731
Lester Bishofberger	62.0R	1-8"								26	29	7			62
Bernice Von Sosten	62.0L	1-12"						211	128	162	217	263	146		1127
--PARADISE DAM (HEAD OF PARADISE CUT)--	62.2L														
Paradise Mutual Water Company	c 62.2L	1-14" 1-20"		135	78		155	352	213	253	349	192	320		2047
O. Eldon Everett d	e 63.3L	2-20"				408	64	179	159	552	499	898	783	141	3685
State of California	63.3L	1-14"	5			10	257	241	236	432	513	418	195	129	2436
H. H. Grimes	63.6R	1-12"		59	129	21			15	131	15	130			500
O. Eldon Everett d	f 63.7L	1-10"						67	40	86	112	122	131	53	611
Alexander Mildebrand	g 66.0R	1-14"						32	25	58	37	51	10	29	242
Johnnie J. Silva	h 66.7L	1-16"				27	91	69	153	181	156	108	112		897
K-C Ranch	66.8R	1-16"					3	44	7	60	94	108	67		383
George A. Plummer	67.0R	1-6"						NO DIVERSION							
Banta Carbona Irrigation District	i 67.5L	2-10" 2-16" 2-20" 3-24" 1-36"	43				5840	7850	7000	6060	5500	3690	1840	248	37871
John Reamers j	68.2R	1-10"					2	53	35	32	95	45	43		215
Glenn M. West Estate	70.0L	1-10"						132	89	82	179	106	11		659
San Joaquin River Water Users Company	71.0R	2-16"		3		51	562	480	472	720	871	754	583	174	4570
E. Fillippini	71.0R	1-4"						6	3	6	9	12	7	3	46
A. J. Cardoza & Son m	71.75R	k 1-16"									90	491	15		596
A. J. Cardoza & Son m	72.1R	1-10"					14	14		47	32	48	21		176
H. J. Mortensen and Barker	73.2R	1-8" 1-12"					116	342	172	215	358	381	220	2	1796
San Joaquin River Club	74.7L	n 1-8"	10	86	20	75	80	28	127	109	94	119	98	7	732
E. A. Tassi	75.6R	1-16"					129	181	185	157	281	255	188	56	1432
SAN JOAQUIN RIVER (Stockton to Vernalis) Totals			119	333	426	760	8430	12620	11340	13470	14590	12590	6720	1754	83090
Average cubic feet per second			2	5	7	14	137	212	184	226	237	204	113	28	115

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.

a Plant is located on Walthall Slough which joins the San Joaquin River at this mile.

b Includes an undetermined amount of water returned to the river by spill.

c Plant is located on Paradise Cut which joins the San Joaquin River at this mile.

d Formerly listed as Dethlefsen Brothers.

e Plant moved from Mile 63.0L to Mile 63.3L in 1961.

f Plant moved from Mile 64.6L to Mile 64.7L in 1961.

g Plant is located on Old Channel which joins the San Joaquin River at this mile.

h Replaced an 8" unit in May 1961.

i Plant is located on intake canal which joins the San Joaquin River at this mile.

j Formerly listed as L. Ball.

k Replaced a 4" gas unit in July 1961.

m Formerly listed as Tony M. Cardoza.

n Replaced a 6" unit in July 1961.

TABLE 210

DIVERSIONS - DELTA UPLANDS
CALAVERAS RIVER, MOKELUMNE RIVER, COSUMNES RIVER, SACRAMENTO RIVER BELOW SACRAMENTO, YOLO BYPASS (WEST CUT), AND PUTAH CREEK

November 1960 through October 1961

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Year Oct 1960 to Sept 1961 Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
CALAVERAS RIVER (a)															
Totals			0	0	0	0	1	1	1	12	23	13	17	2	74
Average cubic feet per second			0	0	0	0	0	0	0	0	0	0	0	0	
MOKELUMNE RIVER (b)															
Totals			30	0	26	0	69	718	1849	1938	2086	1960	928	353	9957
Average cubic feet per second			1	0	0	0	1	12	30	31	34	32	16	6	14
COSUMNES RIVER (c)															
Totals			6	0	80	80	49	343	1087	986	1182	992	302	132	5238
Average cubic feet per second			0	0	1	1	1	6	18	17	19	16	5	2	7
SACRAMENTO RIVER BELOW SACRAMENTO *															
--RIO VISTA BRIDGE--	12.9														
John Lira	13.0R	1-6"						5	36	16	34		1		92
C. A. Beach	45.2L	1-12"							46	67	98	89	36		336
W. and B. Correa	45.5L	1-10"							44	67	74	69			254
Hack and Forsythe	45.75L	1-6"						NO DIVERSION							
A. J. Sweeney	45.95L	1-10"							44	54	78	73	13		262
--FREEPORT BRIDGE--	46.0														
Freeport Development Company	46.25L	1-8"							125	174	178	175	43		695
L. J. Dee	46.8L	1-10"						NO DIVERSION							
L. O. Klotz	47.1L	1-8"	3					31	12	25	39	38	28	24	200
E. A. Franklin	47.5L	1-8"							13	19	21	28			81
George Coleman	47.7L	1-6"							45	25	34	31			135
M. A. Richardson	53.7L	1-6"						NO DIVERSION							
--TOWER BRIDGE - SACRAMENTO--	59.0														
SACRAMENTO RIVER BELOW SACRAMENTO															
Totals			3	0	0	0	0	36	365	447	556	563	121	24	2115
Average cubic feet per second			0	0	0	0	0	1	6	8	9	9	2	0	3
YOLO BYPASS (WEST CUT) **															
H. L. Sorenson	4.2R(1.9)	1-14"						75	101	132	142	166	195	135	946
Mounds Farms	4.2R(2.0)	2-12"	103	93				71	115	94	140	132	283	379	1410
H. L. Sorenson	4.2R(2.0)	1-16"	4	5	4			5	3				28	420	469
Yolo Flyway Farms	5.7R(0.9)	1-18"		228	61	42			23	14	3		270	365	1006
R.S.W. Ranch	5.7R(1.5)	1-16"	35	33	4			273	367	407	369	402	353	270	2513
Yolo Basin Farms d	6.75R(0.6)	1-16"	162	145	49	22			44	26	31	38	370	490	1377
Lucky Five Farms e	6.75R(0.7)													131	131
James Irlart	f 7.85R(0.2)	1-16"	44	46	26				108	158	153	114	186	143	978
Swanston Land Company	g 7.87R(0.7)	1-16"								55	56				111
Swanston Land Company	h 7.87R(1.6)	1-16"	34	31	1				88	117	267	264	57	172	1031
Vaughn and Burlingham	i 7.87R(2.0)	1-14"							215	133	152	144	74		718
Vaughn and Burlingham	j 7.87R(2.4)	1-14"							247	158	150	183	83	83	904
Vaughn and Burlingham	k 7.87R(2.6)	1-14" 1-16"						83	617	561	555	761	473	360	3410
Swanston Land Company	9.1R	1-16"	61						96	167	381	328	135	97	1265
T. S. Olide	m 10.9R(0.1)	1-20"	160	127	33			124	404	226	386	306	237	487	2490
T. S. Olide	11.0R	1-20"								146	146				292
T. S. Olide	12.4R	1-14"						NO DIVERSION							
T. S. Olide	13.15R	1-16"								145	280	104			529
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	13.2														
T. S. Olide	13.5R	1-10" 1-16"						NO DIVERSION							
T. S. Olide	13.9R	1-16"									413	413			826
T. S. Olide	n 14.8R(0.2)	1-16"									355	355			710
Cowell Foundation	o 17.1R(0.7)	1-20"						34	521	502	516	465	55	4	2097
Cowell Foundation	o p 17.1R(1.4)	1-20" 1-10"	181	187	158	30	96	1160	2560	4220	5870	4100	1880	861	21300
T. S. Olide	18.6R	1-36"						180	1510	1950	2140	1930	230		7940
T. S. Olide	18.95R	1-10"						PLANT REMOVED							
--U. S. 40 and 99W CAUSEWAY--	20.1														
YOLO BYPASS (WEST CUT)															
Totals			684	805	336	94	96	2005	7019	9211	12510	10200	4914	4197	52460
Average cubic feet per second			11	13	5	2	2	34	114	155	203	166	80	72	72
PUTAH CREEK (q)															
Totals			0	0	0	0	3	0	35	57	104	54	1	0	254
Average cubic feet per second			0	0	0	0	0	0	1	1	2	1	0	0	0

* Mileage above Chain Island.
** Mileage above Prospect Island.
a Below Gaging Station - Calaveras River near Stockton, Mile 7.7. Individual diversions are shown in Table 75.
b Below gaging station - Mokelumne River at Woodbridge, Mile 19.2. Individual diversions are shown in Table 74.
c Below gaging station - Cosumnes River at McConnel., Mile 10.7. Individual diversions are shown in Table 73
d Formerly listed as Frido.f Anderson.
e New installation in 1961.
f Formerly listed at Mile 7.85R.
g New installation in 1961.
h Formerly listed at Mile 7.87R(1.7).
i Formerly listed at Mile 7.87R(2.1).
j Formerly listed at Mile 7.87R(2.5).
k Formerly listed at Mile 7.87R(2.7).
m Formerly listed at Mile 10.2R(0.4).
n Formerly listed at Mile 14.8R.
o Formerly listed as T. S. Olide.
p Formerly listed at Mile 17.1R(1.8 .
q Below gaging station - South Fork Putah Creek near Davis, Mile 7.2. Individual diversions are shown in Table 72.

TABLE 211

DIVERSIONS - DELTA UPLANDS
(Miscellaneous Delta Uplands)
November 196 [illegible] through O[illegible]ber 1[illegible]

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
MISCELLANEOUS DELTA UPLANDS															
Pixie Mill Slough															
Sam Hernande	2,6-17D	1-[illegible]							1	[illegible]	7	4			7
Oundi Sergarina	2,6-17C	1-1.5"						PLANT REMOVED							
Denver Henderson [illegible]	2,6-5N	1-6"						1	1[illegible]	8	7	.4	4		47
Disappointment Slough															
H. Moffat and Elbon Land Company	2,6-6P	1-18"					[illegible]	[illegible]16	[illegible]	35[illegible]	5[illegible]	[illegible]66	4	[illegible]	[illegible]
H. Moffat and Elbon Land Company	2,6-6J	1-14"					2[illegible]	490	47[illegible]	[illegible]	591	4[illegible]1	[illegible]96	[illegible]	[illegible]
Telephone Cut															
E. V. Lang	3/5-35A	Gravity	[illegible]	20	10	31	43	54	60	76	[illegible]	74	34	11[illegible]	b [illegible]
E. V. Lang	3/5-26D	Gravity						NO DIVERSION							
E. V. Lang	3/5-36C	Gravity						NO DIVERSION							
E. V. Lang	3/5-26R	Gravity	[illegible]	-	1									7	[illegible]
E. V. Lang	3/5-25R	1-16" 1-12"	5				36	199	254	[illegible]27	[illegible]40	[illegible]67	[illegible]	[illegible]	d [illegible]44
E. V. Lang [illegible]	[illegible]/5-35B	[illegible]-1[illegible]						[illegible]	173	195	[illegible]03	[illegible]36	[illegible]6		[illegible]61
White Slough															
Bert Van Ruiten	3/5-25C	1-16"	1	[illegible]	12	15	29	92	189	[illegible]25	[illegible]29	[illegible]41	277	75	[illegible]65[illegible]
Bert Van Ruiten	3/5-26C	1-12"	4	5	[illegible]	4	2	[illegible]3	51	[illegible]5	161	[illegible]5	56	[illegible]6	[illegible]47
Hog Slough															
Robinson Farms	4/5-[illegible]5B	Gravity	12[illegible]											11[illegible]	[illegible]24[illegible]
Robinson Farms	4/5-[illegible]8B	Gravity	158	163				93	96	9[illegible]	96	[illegible].4	1[illegible]1	[illegible]39	[illegible]..7[illegible]
Thompson-Polger Company	4/5-28C	1-12" Gravity	40	44	27		6	9	14	[illegible]	[illegible]6	[illegible]2	[illegible]2	[illegible]7	[illegible]
Beaver Slough															
C. B. Orvis	4/5-15C	1-15"	14	14	10	[illegible]	26	81	135	172	220	140	[illegible]96	35	946
C. B. Orvis	4/5-15D	1-15"						[illegible]9	19[illegible]	244	270	247	194	91	1278
Canal Ranch	4/5-16B	1-8" Gravity					14	[illegible]3	[illegible]6	72	153	[illegible]2	[illegible]0	[illegible]1	431
Canal Ranch	4/5-16D	1-8"					45	54	89	170	190	1[illegible]7	98	[illegible]9	[illegible]
Burton Slough															
Clow and Rose	5/5-[illegible]HD	1-[illegible]								1[illegible]	11	10			[illegible]1
Barnes Ranch	5/5-[illegible]0D	1-5" 1-10"								51	73	7			[illegible]31
Clow and Rose	5/5-[illegible]0K	1-8"								48	48	24			[illegible]0
Morse Brothers	5/5-16H	1-16"					46	64	236	283	347	261	172	[illegible]3	1442
Clow and Rose	5/5-15M-1	1-10" 1-14"						[illegible]5	6[illegible]9	514	606	572	426		[illegible]79[illegible]
Morse Brothers	5/5-15M-2	1-14"	[illegible]4	36	[illegible]6	[illegible].6	[illegible]6	91	186	[illegible]05	[illegible]39	124	117	117	1466
Thomas B. Sharp	5/5-16J	1-12"							[illegible]27	191	292	249	226		1[illegible]8[illegible]
East Dredger Cut - Smodgrass Slough															
H. E. Graf	6/5-31N	1-12"								71	236	189			496
Alfred Kuhn	6/4-36Q	1-16"					51	13	96	190	210	201	127	77	[illegible]65
Duck Slough Extension															
Isabella Wineman	6/2-26B	1-14"						124	141	150	120	217	12[illegible]	75	[illegible]47
Isabella Wineman	6/2-26 D	1-12"						91	141	120	131	1[illegible]0	101	81	79[illegible]
Isabella Wineman	6/2-26J	1-14"	3					1460	2000	600	308	25[illegible]	2[illegible]8	115	4977
Haas Slough															
Elmira Farms	6/2-35H	1-12"	39	38	18					64	6	4	81	66	[illegible]16
Reclamation District 2068	6/2-34O	1-24" 2-[illegible]" 1-16"	737				2[illegible]	[illegible]240	94[illegible]	8020	9510	8860	6870	5580	[illegible]5[illegible]7
Francis F. Gunning	6/2-34P	1-16"	20	8	8	7	12	224	218	254	178	154	136	155	1[illegible]74
Cache Slough															
Carpenter Ranch	4/5-2[illegible]B	1-12"						96	68	[illegible]6	8[illegible]	8[illegible]	26	[illegible]	599
Harold D. Miller	5/5-2-4D	[illegible]-14"	21	18	18			13	140	107	90	100			507
Jack Parker	5/[illegible]-4K	1-[illegible]	[illegible]1	11	11	10	1	[illegible]2	58	97	8[illegible]	77	79	68	568
Ervin E. Vassar	5/[illegible]-4K	1-[illegible]"	2	1	1			105	460	464	718	616	[illegible]99	124	2890
Calhoun Cut															
Hamilton and Nyman	5/1-[illegible]5D	1-10"						NO DIVERSION							
Matilda Hall	5/[illegible]-1AJ	1-10"							68	69	68	[illegible]7	47	47	[illegible]96
Unaggregated															
Porter Estate Company	[illegible]/5-19E	1-16"					1[illegible]	[illegible]	1[illegible]	[illegible]5	[illegible]0	[illegible]9	[illegible]	6	[illegible].g 16[illegible]
Red House Ranching Company	[illegible]/5-[illegible]1L	1-10"	10	1	6		44	7[illegible]	102	108	157	158	[illegible]6	66	8[illegible]
R. C. Coldani	[illegible]/5-14L	1-14"					[illegible]6	1[illegible]	136	148	[illegible]04	[illegible]93	146	16[illegible]	1[illegible]4
Cotta and Sousa	[illegible]/5-34Q	1-16"					197	[illegible]42	[illegible]49	[illegible]52	245	246	164	176	17[illegible]

TABLE 211

DIVERSIONS - DELTA UPLANDS
(Miscellaneous Delta Uplands) (contd.)
November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	
H. L. Sorensen	6/3-18P	1-14"						265	345	490	642	505	341	306	h 2894
H. L. Sorensen	6/3-20J	1-16"	10	13	10			206	96	59	10	3	144	257	808
H. L. Sorensen	6/3-19E	1-14"	44	41	4			35	81	98	71	50	104	165	693
H. L. Sorensen	6/3-30D	1-14"	23	25	10			68	123	110	159	118	113	200	949
H. L. Sorensen	6/3-30L	1-16"	21	20	[illegible]				94	109	163	155	80	217	862
Reclamation District 2068	6/2-25P	1-12"													1
Sub-Irrigated Lands	J						83	106	117	152	171	144	106	91	970
MISCELLANEOUS DELTA UPLANDS Total			1408	474	190	96	1071	10250	17680	16610	18590	16300	12320	9495	104500
Average cubic feet per second			24	8	3	2	17	172	288	279	302	265	207	154	144
DELTA UPLANDS Total			2216	2061	1871	1029	18850	47970	57300	68590	78240	69940	41490	22830	412400
Average cubic feet per second			37	34	30	19	307	806	932	1153	1272	1137	697	371	570
Monthly use in percent of seasonal			0.5	0.5	0.5	0.2	4.6	11.6	13.9	16.6	19.0	17.0	10.1	5.5	

* Figures represent North Townships, East Ranges and sections. Letters represent the 1/4 - 1/4 sections which are lettered from A through R excluding I and O, similar to the numbering of sections within a township.

a Formerly listed as Lawrence Jimenez.

b Includes 452 acre-feet received by sub-irrigation.

c A 12" unit installed in 1961.

d Includes an undetermined amount of spill.

e New installation in 1961.

f Includes an undetermined amount of Marsh Creek water.

g Not previously reported: 1959=177 acre-feet, 1960=202 acre-feet.

h Includes undetermined amount of drain water.

i Diversion in 1961 was all controlled drainage water.

J Estimated consumptive use on lands in the Delta Uplands considered as sub-irrigated from tidal channels during 1961 without a specific point of diversion.

TABLE 21C

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
November 1960 through October 1961

Water User	Mile and Bank a	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--DURHAM FERRY BRIDGE--	76.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7														
Cook Land and Cattle Company	78.9R	1-14"						468	282	364	957	700	418	59	3248
Cruze, Oonsalvea and Moreaco	79.4R	1-20"	1				61	150	140	130	222	138	140		b 982
--STANISLAUS RIVER--	79.7R														
Faith Ranch	79.8R	1-16"					27	39	70	82	69	74	38	38	437
W. C. Blewett Estate	80.7L	1-12"				19	219	97	45	213	118	107	11		829
W. C. Blewett Estate	81.8L	2-12" 1-14"	53			37	446	683	526	774	856	705	570	382	5032
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10" 2-12"					495	646	874	999	991	1010	830	183	6028
El Solyo Water District (c)	82.0L	1-10" d 1-16" 3-18"				17	1290	2550	2080	2040	2930	2420	1230	113	14670
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9L	1-16"					30	139	134	102	299	296	127		1127
El Solyo Ranch	83.5L	1-12"					37	57	24	71	62	34	43	3	331
El Solyo Ranch	83.7L	1-12"					35	97	106	87	205	112	30	31	703
Faith Ranch	84.4R	1-20"				2	95	535	570	729	718	563	532	312	4056
--TUOLUMNE RIVER--	91.0R														
--GAGING STATION - SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L														
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8														
West Stanislaus Irrigation District	91.8L	1-12" 1-24" 6-26"	222		64	60	7260	17300	10400	14100	18500	14400	4330	1320	87960
Fred Lara # 1	•• (0.6S)	1-14"					123	139	69	186	192	243	188		1140
Frank Sarmento # 1	•• (0.7N)	2-16"					325	384	347	526	624	435	269		2910
Frank Sarmento # 2	•• (1.1N)	1-14" 1-16"					849	531	783	701	926	848	443	98	5179
Fred Lara # 2	•• (2.2S)	1-16"					26	41	21	73	94	43	44		342
Frank Sarmento # 3	•• (2.3N)	2-16"					186	330	296	270	359	410	257	131	2239
J. V. Steenstrup Estate	93.1R	2-12"				40	347	76	98	148	239	302	182		1432
George Covert	e 94.1L	1-3" 2-6"	24	10			46	48	48	91	102	88	34		491
Rancho Dos Rios	94.7R	1-12"		1			247	320	430	503	567	449	369	192	3078
E. L. Brazil (f)	95.5R	1-16"					133	215	232	246	362	332	149	130	1799
Charles Correia (g)	95.8R	1-10"					36	41		42	29	32	9		189
W. P. Cook	96.0L	1-18"	2			8	343	231	411	523	613	448	111	176	2866
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON--	96.05														
--LAIRD SLOUGH BRIDGE--	96.05														
E. S. Brush	98.5R	1-7"							3	37	38	36	25		139
Rancho El Pescadero	98.9L	1-18"	3			167	70	387	276	242	394	168	19		1726
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4														
Patterson Water District	104.4L	1-14" 2-18" 3-20" 1-36"				90	3960	8190	6040	9650	9850	8400	5110	98	51390
Chase Brothers	104.5R	1-18"					240	127	218	367	392	418	273	50	2085
--PATTERSON BRIDGE--	104.6														
Chase Brothers	h 106.5R	1-12"	8				134	381	417	321	447	466	440	213	2827
Tony Spinelli	109.1R	1-12"	4	3			29	71	40	42	46	47	47	40	369
Twin Oaks Irrigation Company	109.8L	1-12" 2-16" 1-18"	3				557	1410	2020	2130	2540	2070	842	333	11900
T. J. Henderson	110.8R	1 2-8"					30	164	80	192	218	390	373	182	1629
L. A. Thomson	112.5[illegible]R	1-18"	4	2	1		142	189	354	359	538	359	285	137	2370
Frank C. Mosier	113.4R	1-10"	6				140	137	136	160	199	187	136	23	1123
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	11[illegible]														
Frank C. Mosier	114.6[illegible]R	1-8"					51	48	92	57	135	76	3	16	478
Manual A. Serpa	114.75R	2-[illegible]"				59	149	315	258	329	502	294	136		2042

TABLE 212

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge) (contd.)
November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
--ORESTIMBA CREEK--	115.2L														
Roy F. Crow	115.8L	1-10"				27	168	153	74	177	130	97	139		965
L. B. Crow	116.05L	1-14"				26	49	112	205	125	187	166	92	30	992
John W. Greer	116.5R	1-12"	26					401	13	230	364	389	89		1512
Stevinson Water District	121.3R	1-18"				7	54	166	96	249	257	182	153	46	1210
--MERCED RIVER SLOUGH--	122.2R														
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1L	1-16"					65	63	100	116	111	113	46	49	663
VERNALIS TO FREMONT FORD BRIDGE															
Total			356	16	65	559	18500	37400	28400	37800	46400	38000	18600	4380	230500
Average cubic feet per second			6	0	1	10	301	628	462	635	755	618	313	71	318
Monthly use in per cent of annual			.2	0	0	.2	8.0	16.2	12.3	16.4	20.2	16.5	8.1	1.9	

** West Stanislaus Irrigation District Canal. The intake canal joins the San Joaquin River at mile 91.8L. Distance from the river and the bank is shown in parentheses.
* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
a Replaces a 10" Unit.
b Includes an undetermined amount of water returned to river by spill.
c Formerly listed as El Solyo Water Company.
d The 16" Unit was installed in 1961.
e Pumping plant is located on old channel which joins the San Joaquin River at this mile.
f Formerly listed as L. S. Crane.
g Formerly listed as Earl Wheatly.
h A 10" Unit was removed in 1961.
i One 8" Unit was installed in 1961.
j A 4" Unit was removed in 1961.

TABLE 213

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Oravelly Ford)

November 1960 through October 1961

Water User	Mile and Bank •	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS	186.0														
San Luis Canal Company (a)	186.6L	Gravity	4009	3296	430	3830	11098	18430	20658	25236	27590	26162	15286	9045	165070
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	206.2														
--MENDOTA DAM--	208.63														
Central California Irrigation District (a)	208.8L	Gravity	6678	1436	2975	11565	54331	69280	70306	81402	92447	83437	44768	22548	541173
--FRESNO SLOUGH--	209.0L														
--DELTA MENDOTA CANAL--	8(0.2L)														
Firebaugh Canal Company (a)	8(0.4L)		123	127	776	895	6561	9477	11038	14082	14485	13363	5081	2217	78225
M. L. Dudley	8(3.4L)						300	395	363	422	532	426	54		2492
State of California Mendota Waterfowl Management (b)	8(6.45-8.20)	1-16"	1379	1335		26	129	216	220	2335	3003	1684	2846	4540	17713
Fresno Slough Water District (b)	8(9.20-10.50)		4			93	837	280	661	1053	1055	986	123		5092
--JAMES BYPASS--	8(11.80R)														
Traction Water District (b)	88(0.75)		101			192	914	605	575	1148	1519	1299	514	313	7180
Reclamation District 1606 (b)	88(1.50)						42	18	143	143	155	75			576
James Irrigation District (b)	88(4.4)					1260	3070	2335	3011	4030	4808	3667	613		22794
Tranquillity Irrigation District (b)	8(12.00-13.75)					2251	2900	2386	3499	7547	7252	5798	611	165	32409
Melvin D. Hughes (b)	8(12.20)						38								38
--LONE WILLOW SLOUGH--	219.8R														
Columbia Canal Company (a)	219.8R		1501	899	123	1817	4393	6455	7872	8033	9306	8822	6257	2912	58390
State Center Duck Club (c) (b)			50	137										313	500
C. Sawall (d) (b)								14	12	46	22				94
Mendota Duck Club (e) (b)															
M. Beck (f) (b)			6						16	14	16			26	78
E. P. Jennings (b)			89						58	202	103	75	40		567
F. A. Yearout (b)								228	42	151	224	244			889
Tulle Gun Club (g) (b)									12					75	87
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83														
--ORAVELLY FORD CANAL--	232.8R														
FREMONT FORD BRIDGE TO ORAVELLY FORD Totals			13940	7230	4304	21929	84613	110119	118486	145844	162517	146038	76193	42154	933367
Average cubic feet per second			234	118	70	395	1376	1851	1927	2451	2643	2375	1280	686	1289
Monthly use in percent of seasonal			1.5	0.8	0.5	2.4	9.1	11.8	12.7	15.6	17.4	15.6	8.2	4.5	

• Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
8 Plant is located on Fresno Slough which diverts from San Joaquin River at mile 209.0L. Distance from San Joaquin River and bank is shown in parentheses.
88 Plant is located on James Bypass which diverts from Fresno Slough at Mile 8 (11.80R). Distance from Fresno Slough and bank are shown in parentheses.
a Records furnished by contracting entities.
b Records furnished by U. S. Bureau of Reclamation.
c 1 - 6" pump located on arm of slough, at S.W. corner S.12, T.14S, R.15E.
d 1 - 8" pump located on arm of slough, 1500' W. of S.E. corner, S.18, T.14S., R.16E.
e 1 - 8" pump located on arm of slough, at S. 1/4 corner, S.11, T.14S., R.15E.
f 1 - 8" pump located on arm of slough, 1400' S. of N.E. corner, S.24, T.14S., R.15E.
g 1 - 8" pump located on arm of slough, adjacent to M. Beck.

TABLE 21-4

DIVERSIONS - SAN JOAQUIN RIVER
(Gravelly Ford to Friant Dam)
November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
W. A. Kochergen 1	233.66R	1-6"					23	29	31	51	82	67	32	29	344
Dewey W. Johnson 2	235.33R	a 1-5"					10	16	13	90	109	101	82	25	446
--GAGING STATION - SAN JOAQUIN RIVER NEAR BIOLA--	236.4R														
Hansen, K. J. Smith and R. C. McIntuf (b)	237.33L	1-8"	11				99	87	53	57	61	81	47		496
J. A. Peterson	237.98R	1-6"					40		22	10	101	28	9		210
--SKAGGS BRIDGE--	238.18														
--BOWSER RECORDING GAGE--	242.41L														
A. and M. Overgaard	243.84R	1-5" 1-6"					63	36	5	90	119	44	5	37	405
Leyton Woolf (c)	245.36R	1-6"				2	70		43	75	65	10		10	275
--U. S. 99 HIGHWAY BRIDGE--	247.38														
--SANTA FE RAILROAD BRIDGE--	249.23														
Miller Brothers	251.46L	1-6"					48	[illegible]	78	64	82	84	43	36	501
L. L. Howard	254.93R	1-6"					17	14		31	42	36	4		144
Sycamore Island Stock Ranch 5	255.34R	1-6"							60	48	43	61	30	18	260
Sycamore Island Stock Ranch 4	d 255.84	1-5"					1	23		29	45	14			112
Sycamore Island Stock Ranch 2	256.52R	1-8"							3	39	50	44	11		147
Oscar Spano River Ranch 1 (e)	257.10L	1-8"					[illegible]	69	61	143	155	192	59	24	729
L. D. Cobb	258.08R	1-6" 1-7"					[illegible]	39	75	146	132	122	29		596
--STATE HIGHWAY 41 BRIDGE--	258.33														
R. J. Curtis	258.39L	1-4" 1-7"						20	16	20	70	44	14	22	208
W. E. Roberts 1	258.80L	1-6"	3	3			3	22	40	52	37	39	8	3	210
W. E. Roberts 2	258.90L	1-12"	19	1	1	[illegible]	27	53	71	99	106	114	53	42	590
J. E. Cobb	259.39R	2-6"	3				49	19	23	89	103	112	23	12	433
--OLD LANES BRIDGE--	259.78														
J. E. Cobb 3	260.40R	1-[illegible]"					27	83	80	106	120	128	117	84	757
R. C. Arnold 1	261.53R	1-4" 1-5"	9	5			25	52	51	74	[illegible]	79	83	77	515
Duane M. Folsom	261.70L	1-6"	11				6	48	76	148	182	120	64	45	706
E. G. Ranks, Jr.	262.32L	1-5"					13	35	58	132	38	60	35	52	423
Dale McCoon 1	262.60R	1-5"					3	155	23	85	110	68	29		479
W. H. Rohde	262.66L	1-7"							23	78	103	92	19		315
Dale McCoon 2	263.40R	1-7"					10	[illegible]		14	181	[illegible]	33		598
Dale McCoon 3	263.40R	1-6"					5	28	18	[illegible]	172	110	17	29	473
H. K. Jensen	263.70R	1-5"	1				31	26	72	45	37	32	14	10	268
H. W. Ball 4	264.08L	1-[illegible]"						26		38	88	[illegible]	2		228
Ike D. Ball	264.60R	1-6"	9				48	[illegible]	100	109	120	115	89	102	703
W. F. Ball	264.83L	1-4" 1-5"	10	[illegible]			17	42	52	77	93	71	48	50	464
Virgil Durando	267.56L	1-8"	4				55	64	21	189	248	197	62	164	984
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Total			8	13	1	4	769	1165	1176	2463	294[illegible]	252[illegible]	1061	871	1[illegible]
Average cubic feet per second			1	0	0	0	1	20	19	41	48	41	18	14	18
Monthly use in per cent of annual			0.6	0.1	0	0	5.9	8.9	9.0	18.1	2.5	19.3	8.1	6.7	

* Mileage along San Joaquin River from its mouth 49 miles below Antioch.
a Replaces A 8" Unit.
b Previously listed as Hansen, K. J. Smith, and R. C. McInturf.
c Formerly listed as D. C. and P. Farms Incorporated.
d Point of diversion and place of use is on island in midstream.
e Formerly listed as Pappa Brothers 1.

TABLE 21

DIVERSIONS - MERCED RIVER
November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--NILLS FERRY BRIDGE--	1.1														
Stevinson Water District #1	1.8R	1-16"			4		104	117	307	208	281	197	106	37	1361
Stevinson Water District #2	3.8R	1-18"		1		99	161	432	379	788	619	656	571	147	3853
Milton Gordon	4.3L	1-10"	9	7	10	5	5	23	34	32	42	53	32	32	284
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6														
Maria De Angelis	5.8L	1-12"					13	31	41	40	81	47	21	24	298
Stevinson Water District (a)	6.1L	1-20"					138	850	194	653	591	866	637	505	4434
Stevinson Water District #3	7.7L	1-20"	3		1	80	184	753	465	635	750	829	764	449	4913
Manuel Clemintino	8.5L	1-12"					42	94	5	40	54	36	30	72	373
Manuel Clemintino	8.9L	1-12"					35	45	62	48	96	104	58	45	493
Samuel B. McCullagh	9.4L	1-8"					10	30	86	118	180	96	27	1	548
Mrs. J. R. Jacinto	9.6L	1-12"			3		47	108	51	124	150	261	127	16	887
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	1-10"	4	1	3	6	56	150	173	199	210	140	177	168	1287
Manuel Freitas	10.9L	1-12"					44	82	103	157	151	163	144	62	906
R. E. Pruaso and John Vierra	10.9L	1-5" 1-8" 1-12"					21	74	66	112	135	140	16	75	639
E. and J. Gallo Winery Ranch	11.6L	1-18"					89	386	45	370	471	225	23	61	[b]1670
--MILLIKEN BRIDGE--	11.65														
E. and J. Gallo Winery Ranch	12.35L	1-10"	14				8	14	27	60	64	20		3	210
Anthony L. Calderia (c)	12.5R	1-12"						35	13	83	40	56	21		248
E. and J. Gallo Winery Ranch	12.85L	1-12"	63				45	71	78	190	238	122		32	839
J. M. Souza	14.5L	1-10"				1	40	24	48	56	96	97	54	1	417
--GAGING STATION - MERCED RIVER NEAR LIVINGSTON--	16.49														
E. and J. Gallo Winery Ranch	16.5L	[d]1-14"	79				11	82	37	136	124	106			582
J. E. Gallo	20.4L	1-7"	15				27	100	43	47	121	64		27	444
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05														
Gallo Cattle Company	22.2R	1-8" 1-16"	12	3	4	3	159	142	188	276	319	192	130	100	1528
Gallo Cattle Company	22.8R	1-12" 1-15"	25				122	152	197	226	239	173	191	1[illegible]	1338
Merced River Farms Association	26.3R	1-8"						58	69	78	110	90	29	[illegible]	4[illegible]
W. C. Magneson	26.55R	1-3" 1-5" 1-8"					7	36	44	49	25	50	26	16	253
W. C. Magneson	26.8R	1-3" 1-10"					INDUSTRIAL USE ONLY								
--SANTA FE RAILROAD BRIDGE--	27.05														
W. C. Magneson	27.5R	1-10"						25	18	76	67	109	94	35	424
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.55														
Manuel Silva	29.9R	1-6" 1-10"							50	57	72	52	34	8	273
Manuel Silva	30.95R	1-12"							92	133	161	85	96	41	608
Rancho Con Valor (a)	31.1L	1-8"					3	2	12	40	66	32	23		178
Manuel Silva	31.4R	1-10"						22		41	32	29		14	138
F. Hilarides	32.3L	1-12"	33	1	2			47	33	51	265	242	107	62	843
--SHAFFER BRIDGE--	32.5														
Albert Chavas	33.1R	1-10"									69	95	15		179
Walter Bettencourt	34.4L	1-1½"					INDUSTRIAL USE ONLY								
Walter Bettencourt (f)	34.45L	1-12"										315	154	106	575
W. F. Bettencourt, F. Hilarides, and Cowel Lime and Cement Company	36.9L	Gravity	51	122	166	221	176	318	875	702	423	267	252	99	3672
Reinero Brothers	39.1L	1-14"	57	2		3	73	99		12	86	146	16	9	503
Hatzlaff Brothers	40.2L	1-4"						37	54	64	71	66	46		338
--COX FERRY BRIDGE--	42.1														
Cowell Ditch	45.3R	Gravity	808	1240	1000	1250	1200	1680	2930	3400	4400	3240	1290	802	23240
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
MERCED RIVER Total			11[illegible]	1[illegible]	119[illegible]	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	101	[illegible]
Average cubic feet per second			[illegible]	[illegible]	19	[illegible]	[illegible]	10	111	1	1[illegible]	1[illegible]	[illegible]	[illegible]	[illegible]
Monthly use in per cent of annual			[illegible].0	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	11.[illegible]	1[illegible]	1[illegible]	1[illegible]	[illegible]	[illegible]	[illegible]

a New installation in 1961.
b Includes an undetermined amount of water returned to River by spill.
c Formerly listed as Claude Hayes
d Replaces a 10" unit.
e Formerly listed as W. F. Bettencourt
f New installation in 1961.

TABLE 216

DIVERSIONS - TUOLUMNE RIVER

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct.	
E. T. Mape (a)	0.9R	1-12"									155	242	187	141	725
E. T. Mape	1.3R	b 1-14"	126	79	41	106	599	1060	855	1030	1110	1080	926	700	7712
J. V. Steenstrup Estate	1.9L	1-12"					137	121	37	100	211	142	25		773
J. V. Steenstrup Estate (c)	2.4L	1-10"							106	239	145	143	2		635
J. V. Steenstrup Estate	2.9L	1-10" 1-12"					371	20	101	525	448	627	200		2292
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0R	1-10"					26	42	11	40	40	49	29		237
Della Battestin	5.9L	1-14"				1	144	295	107	3	430	439	170	81	1670
Western Farms	6.3L	1-16"					16	73	70	53	131	89	33	43	508
Eugene Boone, Galen Hartwich, and Dr. Harold Willis	7.1R	1-10"	3			10	32	149	102	136	156	98	64	38	788
W. P. Duffy	8.4R	1-10"					47	59	72	61	107	123	65	38	572
Ella T. Rahilly Estate (d)	8.5L	1-10"					26	83	43	55	87	72	85		451
A. C. Watkins Estate (e)	9.4L	1-20"					333	607	612	549	643	628	548	284	4204
McClure Ranches	9.7R	1-12"						108	57	94	52	204	115		630
Raymond Boone	10.2R	1-14"						191	112	205	120	165	141	44	978
--CARPENTER ROAD BRIDGE--	12.9														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3R	1-10"			1	1	29	38	40	56	50	52	38	24	329
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
A. L. Leib	22.8R	1-3" 1-6"					16	34	47	40	90	33	36	25	321
--GEER AVENUE BRIDGE--	26.0														
Standard Materials	27.3L						INDUSTRIAL USE ONLY								
Santa Fe Rock and Sand	28.5R	1-6"					INDUSTRIAL USE ONLY								
Michel Investment Company	28.8R	1-8"	6				5	100	72	75	118	101	63	53	593
J. W. and Lola May Short	29.8L	1-10"					7	4	18	38	51	43	23		184
Firpo Ranch	30.2L	1-10"					8	75	39	78	58	62	57	42	419
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.7														
A. E. Ketchman	39.4R	1-8"						94	34	178	133	124	89		652
--GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE--	39.9														
George H. Sawyer	40.8L	1-14"						38	74	92	119	107	52	18	500
Curtner Zanker	45.7L	1-10"					27		167	133	117	64	59	51	618
Dolling Brothers	46.3R	1-8"						79	61	97	98	106	53	68	562
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
TUOLUMNE RIVER															
Total			135	79	42	118	1823	3270	2837	3877	4669	4793	3060	1650	26350
Average cubic feet per second			2	1	1	2	30	55	46	65	76	78	51	27	36
Monthly use in per cent of annual			0.5	0.3	0.2	0.4	6.9	12.4	10.8	14.7	17.7	18.2	11.6	6.3	

a New installation in 1961.
b Replaces A 20" Unit.
c Temporary installation for 1961

d Formerly listed as Ella T. Rahilly.
e Formerly listed as A. C. Watkins.

TABLE 217

DIVERSIONS - DRY CREEK

November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
Podesto and Arata	0.4R	1-6"						19	43	45	43	30	3		183
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7														
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8														
--LA LOMA BOULEVARD BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.9														
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.3														
--CLAUSS ROAD BRIDGE--	5.4														
--SANTA FE RAILROAD BRIDGE--	6.4														
--CHURCH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
--ALBERS ROAD BRIDGE--	11.0														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	12.6R	1-6"						28	47	66	58	62	38	9	308
Edward Johnson	12.7R	1-6"						86	76	110	119	76	64	14	545
Joe Fagundes	14.7R	1-10"				2	62	138	108	134	195	184	124	70	1017
--OAKDALE - WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total						2	62	271	274	355	415	352	229	93	2053
Average cubic feet per second						0	1.0	4.6	4.5	6.0	6.7	5.7	3.8	1.5	2.8
Monthly use in per cent of annual						0	3.0	13.2	13.4	17.3	20.2	17.2	11.2	4.5	

TADLE 218

DIVERSIONS - STANISLAUS RIVER
November 1960 through October 1961

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	
--GAGING STATION - STANISLAUS RIVER NEAR MOUTH--	1.9														
Cook Land and Cattle Company and C. M. Carroll (a)	1.9R	1 - 16"						82	4	28	26	22	26		188
C. C. Angyal	2.4R	1 - 18"					63	250	64	168	276	154	32		b 1007
Faith Ranch	3.4L	2 - 12" 1 - 16"					165	996	713	590	399	406	853	635	4757
Reclamation District 2064	4.0R	1 - 14" 1 - 16" 2 - 20"	103			33	1000	1850	1220	1270	1240	1420	1410	614	10160
Reclamation District 2075	4.05R	2 - 16" 1 - 20"	73	53	11	257	1190	2880	2380	2050	1260	1690	1750	1020	14610
D. F. Koetitz	4.7L	1 - 14"					45	292	267	248	339	249	237	20	1697
E. T. Mape (c)	4.75L	1 - 20"								3	91	86	397	439	1016
Henry Pelucca	5.5L	1 - 16"	10		5			45	45	63	79	22	7		276
Alice Gill (d)	6.4L	1 - 2 " 1 - 12"	5				15	51	20	89	32	67	19	17	315
D. J. Macedo	8.4R	1 - 16"					195	180	159	358	484	410	217	33	2036
N. E. Cannon	8.7R	1 - 10"	36				258	280	210	438	341	318	222	53	2156
D. F. Koetitz	9.4L	1 - 10"					74	338	342	410	445	426	196	107	2338
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.5														
John L. Hertle	9.8L	1 - 10"					13	29	42	76	63	54	7		284
Nelson Santos	10.0R	1 - 16"							164	100	156	206	46		672
Nelson Santos	10.5R	1 - 16"							330	365	476	290	86		1547
John L. Hertle	10.7L	1 - 10"					35	31	35	38	35	23	32	27	256
Modesto Sand and Gravel Company	15.6L	1 - 3½"						INDUSTRIAL USE ONLY							
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7L	1 - 16"		1		2	118	135	107	273	428	130	229		b 1423
E. J. Freethy	19.0R	1 - 14"					53	111	83	179	215	201	104	66	1012
Libby, McNiel and Libby	20.9R	1 - 14"						260	172	267	270	261	154		1384
Heath Ranch	21.2L	1 - 6"					21	25	94	70	93	92	77	31	503
Thomas Lyon	23.4L	1 - 8"						36	35	86	92	66	3		318
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
F. K. Floden	29.9L	1 - 10"						16	80	56	62	72			286
--SANTA FE RAILROAD BRIDGE--	33.4														
--GAGING STATION-STANISLAUS RIVER AT RIVERBANK--	33.6														
Oakdale Irrigation District (e) (Crawford pump)	37.7L	1 - 14"					96	113	56	264	346	97		17	b 989
Oakdale Irrigation District (e) (Brady pump)	39.1L	1 - 12"						93	74	177	156	128	54		b 682
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE(OAKDALE BRANCH)--	41.2														
--GAGING STATION-STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
Standard Rock Company	51.8L	1 - 10"						INDUSTRIAL USE ONLY							
Walter B. Wilms Estate	52.0L	1 - 10"						NO DIVERSION							
--KNIGHTS FERRY BRIDGE--	54.5														
STANISLAUS RIVER															
Total			227	54	16	292	3340	8090	6700	7670	7400	6890	6160	3080	49910
Average cubic feet per second			4	1	0	5	54	136	109	129	120	112	104	50	69
Monthly use in percent of annual			.5	.1	0	.6	6.7	16.2	13.4	15.4	14.8	13.8	12.3	6.2	

a Formerly listed as A. J. Chisholm Estate and C. M. Carroll.
b Includes an undetermined amount of water returned to river by Spill.
c New installation in 1961.
d Formerly listed as C. C. Updike.
e Oakdale Irrigation District for season of 1961 maintained plants at miles 37.74 and 39.1L to supplement district gravity supply.

TABLE 219

DIVERSIONS - TULE RIVER
November 1960 through October 1961

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	
Pioneer Ditch	a 0.3R	Gravity	DISCONTINUED PUBLICATION												
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	b 1.15														
Campbell-Moreland Ditch	c 3.2L	Gravity	772	1009	956	398	330	313	908	161					4847
--PORTER SLOUGH--	3.2R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	3.2R(2.4)														
--PIONEER SPILL--	d 3.2R(3.7R)														
Porter Slough Ditch	e 3.2R(4.5R)					128	10	1	144						283
--OAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	3.2R(6.1)														
Vandalia Ditch	f 3.9L	Gravity	39	250	225	51	6	6							577
--SANTA PE RAILROAD BRIDGE--	5.9														
Poplar Ditch	g 6.6L	Gravity	14		58	297	216	400							985
--STATE HIGHWAY 190 BRIDGE--	6.7														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.8														
Hubbs-Miner Ditch	h 7.2R	Gravity			24	135	1	52							212
--STATE HIGHWAY 65 BRIDGE--	7.4														
Rhodes-Fine Ditch	i 9.2L	Gravity				NO	DIVERSION								
--OLIVE AVENUE BRIDGE	10.7														
--PRIANT KERN CANAL GROSSING--	11.3														
Woods-Central Ditch	J 11.8L	Gravity				NO	DIVERSION								
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	12.6														
Little Pioneer Ditch	k 15.0L	Gravity													
Ottle Bridge	15.2														
TULE RIVER															
Total			825	1259	1263	1009	563	772	1052	161					6904
Average cubic feet per second			14	20	21	18	9	13	17	3					10
Monthly use in per cent of seasonal			11.9	18.2	18.3	14.6	8.2	11.2	15.2	2.3					

a Record available from U.S.G.S.
b Moved 1.05 miles upstream. Title prior to 1961 was Tule River at Worth Bridge.
c Flow measured at gaging station on Campbell-Moreland Ditch located approximately 2600 feet below head.
d 1764 acre-feet of water flowed into Porter Slough as follows: November-441, December-278, January-186, February-329, March-87, April-139, May-303, and June-1.
e Flow measured at gaging station on Porter Slough Ditch located approximately 150 feet below head.
f Flow measured at gaging station on Vandalia Ditch located approximately 1000 feet below head. The greater portion of this water was used to recharge Vandalia Irrigation District well field.
g Flow measured at gaging station on Poplar Ditch approximately 4750 feet below head.
h Flow measured at gaging station on Hubbs-Miner Ditch located approximately 3400 feet below head. Includes an undetermined amount of water diverted by the Gilliam-McGee Ditch.
i Flow measured at gaging station on Rhodes-Fine Ditch located approximately 3100 feet below head.
J Flow measured at gaging station on Woods Central Ditch located approximately 100 feet below head.
k This Ditch has been abandoned.
* Mileage downstream from junction with South Fork Tule River.

TABLE 22

DIVERSIONS AND ACREAGE IRRIGATED-EAST SIDE CANALS AND IRRIGATION DISTRICTS *

November 1960 through October 1961

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Acreage Irrigated: Cereal	Acreage Irrigated: Rice
Friant-Kern Canal					San Joaquin River										
Total acre-feet diverted	2805	720	0	40299	51190	26442	23435	74786	80974	80272	38153	24300	443376		
Average cubic feet per second	47	12	0	726	833	445	381	1257	1305	1317	640	395	612		
Monthly use in per cent of seasonal	0.6	0.2	0	9.1	11.5	6.0	5.3	16.9	18.1	18.2	8.6	5.5			
Madera Canal															
Total acre-feet diverted	0	0	0	0	11379	1670	0	17036	58343	14220	0	99	102747		
Average cubic feet per second	0	0	0	0	185	28	0	286	949	231	0	2	69		
Monthly use in per cent of seasonal	0	0	0	0	11.1	1.6	0	16.6	56.8	13.8	0	0.1			
Merced Irrigation District					Merced River										
Main Canal	0	0	0	0	0	42548	82892	95061	29165	0	0	0	[a]249666	[b]98827	4540
Northside Canal	173	119	216	222	234	1716	4195	4743	2023	498	460	268	14865	[b] 3828	
Total acre-feet diverted	173	119	216	222	234	44264	87087	99804	31188	498	460	268	264531		
Average cubi feet per second	3	2	4	4	4	744	1416	1677	507	8	8	5	365		
Monthly use in per cent of seasonal	0.1	0	0.1	.1	.1	16.7	32.9	37.7	11.8	0.2	0.2	0.1			
Turlock Irrigation District					Tuolumne River										
Total acre-feet diverted	13210	14410	6728	395	1669	55890	47350	63100	58780	51060	32340	259	[c]360012	[d]171003	
Average cubic feet per second	222	234	109	7	27	939	770	1060	956	830	543	4	497		
Monthly use in per cent of seasonal	3.7	4.0	1.9	0.1	4.6	15.6	13.1	17.5	16.3	14.2	9.0	0.1			
Modesto Irrigation District															
Total acre-feet diverted	7011	8941	448	28	8393	36454	27440	30373	35576	34865	3415	10663	[e]204065	[f]6428	337
Average cubic feet per second	118	145	7	5	137	613	450	510	579	567	57	173	282		
Monthly use in per cent of seasonal	3.4	4.4	0.2	0.1	4.1	17.9	13.6	14.9	17.4	17.1	1.7	5.2			
Waterford Irrigation District															
Total acre-feet diverted	0	0	0	0	0	4380	4490	4847	4731	4606	3878	0	[g]26832	[h]6947	
Average cubic feet per second	0	0	0	0	0	74	73	82	75	75	65	0	37		
Monthly use in per cent of seasonal	0	0	0	0	0	16.3	16.7	18.1	17.3	17.2	14.4	0			
Oakdale Irrigation District					Stanislaus River										
Northside Canal	0	0	30	35	50	10693	11554	12793	14686	13292	8166	170	71468	[i]20074	3108
Southside Canal	0	0	0	0	0	14534	18061	21133	23133	21245	12964	0	111070	[j]34738	359
Total acre-feet diverted	0	0	30	35	50	25227	29615	33926	37819	34537	21130	170	182538	[k]54812	[k]3467
Average cubic feet per second	0	0	0	1	1	424	482	570	615	580	344	3	252		
Monthly use in per cent of seasonal	0	0	0	0	0	13.8	15.3	18.6	20.7	18.9	11.6	0.1			
South San Joaquin Irrigation District															
Total acre-feet diverted	0	0	0	0	3130	32652	34225	30479	42234	42107	2387	393	191607	[m]63096	235
Average cubic feet per second	0	0	0	0	51	596	575	496	687	708	39	7	265		
Monthly use in per cent of seasonal	0	0	0	0	1.6	19.1	17.9	15.9	22.0	22.0	1.3	0.2			
Natomas Water Company					American River[n]										
Total acre-feet diverted	1299	1189	1426	1396	1078	1588	1998	2357	3235	2763	2786	2532	23647		
Average cubic feet per second	22	19	23	25	18	27	32	40	53	45	47	41	33		
Monthly use in percent of seasonal	5.5	5.0	6.0	5.9	4.6	6.7	8.4	10.0	13.7	11.7	11.8	10.7			
San Juan Suburban Water District															
Total acre-feet diverted	1349	1098	1224	1060	1228	2125	3175	4378	4826	4404	3672	3007	31546		
Average cubic feet per second	23	18	20	19	20	36	52	74	78	72	62	49	44		
Monthly use in percent of seasonal	4.3	3.5	3.9	3.4	3.9	6.7	10.0	13.9	15.3	14.0	11.6	9.5			

* Data for Madera and Friant Kern Canal furnished by USBR, other data furnished by individual irrigation districts.

a An additional 123,325 acre-feet of water was pumped from wells.

b Of this acreage, 725 was double cropped. Does not include an undetermined amount of riparian water users acreage.

c An additional 189,196 acre-feet of water was pumped from wells.

d Of this acreage, 17,847 was double cropped.

e An additional 73,300 acre-feet of water was pumped from wells.

f Of this acreage, 10,747 was double cropped.

g An additional 5,375 acre-feet of water was pumped from wells.

h Of this acreage, 207 was double cropped.

i Of this acreage, 216 was double cropped.

j Of this acreage, 935 was double cropped

k This acreage also received 48,963 acre-feet of water from wells and controlled drainage.

m This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,975 was double cropped. Includes 1,413 acres served by subirrigation.

n Data furnished by U. S. Bureau of Reclamation. These quantities are delivered from Folsom and Nimbus reservoirs.

TABLE 221

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS*

October 1960 through September 1961

Water User	Mile Post from Canal Head		Monthly Deliveries in Acre-Feet											Total
	From	To	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
							Contra Costa Canal								
Contra Costa County Water District			4574	2990	3482	2686	2817	3561	5902	7217	8937	7855	7269	6115	63406
Industrial and Municipal			70	75	27	23	153	580	1210	1386	1712	1249	448	306	7239
Agricultural															
Total			4644	3065	3509	2709	2970	4141	7112	8603	10649	9104	7717	6421	70644
							Delta-Mendota Canal								
California (South Bay Aqueduct)	3.54		0	0	0	0	0	0	0	0	0	0	0	16	16
Plain View Water District	8.52	20.00	20	0	1	29	1152	2457	2745	3343	3953	3543	1948	422	19613
West Side Irrigation District	14.79		0	0	0	0	48	673	173	384	1169	554	24	0	3025
Banta-Carbona Irrigation District	20.42		0	0	0	0	D	3200	1296	3874	7103	5812	3001	690	24976
Hospital Water District	18.05	30.96	80	0	0	270	2510	4208	3211	4465	5085	4778	2307	923	27837
West Stanislaus Irrigation District	31.31		0	0	0	0	0	6740	6761	8589	11441	10295	3110	343	47279
Kern Canon Water District	31.31	35.18	22	0	7	3	589	1520	650	1379	1948	1578	662	272	8630
Del Puerto Water District	35.73	42.08	113	3	6	3	871	2098	1628	2401	2279	2704	1224	379	13709
Patterson Water District	42.51		0	D	0	0	521	658	605	756	1022	820	331	0	4713
Salado Water District	42.10	46.83	160	31	0	42	769	1917	956	1212	2291	1489	260	0	9127
Sunflower Water District	44.23	52.02	0	0	0	26	789	1932	1014	1557	2624	1973	500	368	10783
Orestimba Water District	46.83	51.50	0	0	19	0	647	2779	1314	2143	3087	1495	528	62	12074
Foothill Water District	51.65	57.46	1	0	0	0	567	1137	660	1060	1717	1526	753	146	7567
Davis Water District	54.01	56.82	54	0	0	D	365	281	302	552	490	290	216	1	2551
Mustang Water District	56.83	62.67	12	0	0	8	698	958	1332	1454	1648	1158	556	231	8055
Quinto Water District	63.96	67.55	61	0	0	0	302	508	713	555	1045	902	368	161	4615
Romero Water District	66.70	68.03	0	0	0	37	223	198	78	338	636	637	425	0	2572
San Luis Water District	69.21	90.57	2526	58	160	2498	8483	7566	7473	b10934	b13313	b9459	3369	1704	67543
Grassland Water District	70.00		3533	0	0	0	0	0	1255	b 652	b 803	b 108	3538	7678	17567
Grassland Water District (a)	Pool		5280	0	0	0	0	0	0	0	0	0	9459	18424	33163
State Fish and Game	70.00		0	0	0	0	0	0	0	0	0	0	0	0	0
Salinas Land and Cattle Company	70.00		0	0	0	0	0	0	0	0	0	0	0	0	0
Sam Hamburg Farms (M&I)	90.91		1	1	1	1	1	2	2	2	3	2	3	2	21
Panoche Water District	93.25	96.70	510	0	1073	6675	9664	4509	5930	10623	12485	9413	3543	2787	67212
Eagle Field Water District	93.27	94.57	328	0	94	394	313	728	593	825	901	934	435	326	5871
Oro Loma Water District	95.50	96.62	1	0	0	0	98	845	643	702	935	767	46	177	4214
West Side Golf Association (M&I)	95.95		2	1	0	2	5	7	13	19	21	24	17	16	127
Mercy Springs Water District	97.70	98.70	0	0	0	0	168	600	1295	1283	1367	1014	26	0	5743
Widren Water District	102.03		0	0	0	0	81	40	313	316	381	454	55	0	1640
Broadview Water District	102.95		194	15	734	2181	2320	979	1549	2285	3250	2656	552	278	16993
Total			12898	109	2095	12169	31184	46540	42504	61703	80987	64385	37256	35406	427236
Net Deliveries, DMC to Mendota Pool			16439	696	694	27241	87947	118971	120065	154364	175345	159199	79466	43230	983657

TABLE 221

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS* (contd.)

October 1960 through September 1961

Water User	Mile Post from Canal Head		Monthly Deliveries in Acre-Feet											Total
	From	To	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
							Millerton Lake								
Fresno County Water District #18			1	1	1	1	1	6	7	15	17	15	9	5	79
Ralston Association			1	0	0	0	0	1	0	0	1	0	1	0	4
Total			2	1	1	1	1	7	7	15	18	15	10	5	83
							Madera Canal								
Madera Irrigation District	6.10	32.2	0	0	0	0	9434	1841	0	14154	35360	0	0	0	60789
Adobe Ranch	20.6		101	0	0	0	0	0	0	0	11	92	89	63	356
Chowchilla Water District	35.9		0	0	0	0	0	0	0	202	23574	15977	0	0	39753
Total			101	0	0	0	9434	1841	0	14356	58945	16069	89	63	100898
							Friant-Kern Canal								
Round Mountain Ranch	20.22		0	0	0	0	0	8	12	10	12	18	14	13	87
Orange Cove Irrigation District	34.80	54.30	325	0	0	0	883	2945	2120	3741	5292	5826	3372	1999	26503
City of Orange Cove	43.44		0	0	0	0	0	18	28	41	46	43	30	22	228
Stone Corral Irrigation District	56.90	64.40	26	0	0	0	319	639	468	1089	1555	1638	538	248	6520
Ivanhoe Irrigation District	65.04	66.46	496	248	0	0	87	60	153	853	1053	1277	1861	1357	7445
Tulare Irrigation District	68.14		0	0	0	11421	0	0	0	19331	1517	0	0	0	32269
Exeter Irrigation District	72.52	80.63	208	0	0	492	581	710	407	865	1353	1573	1626	797	8612
Lindsay-Strathmore Irrigation District	85.56		444	0	0	167	1382	2061	2180	3074	3404	3921	3340	2765	c 22738
Lindmore Irrigation District	86.17	91.12	343	0	0	1640	1777	1551	1515	3084	4312	4848	3834	2866	25770
Porterville Irrigation District	93.86	98.62	0	0	0	327	952	1035	873	950	1833	2309	1317	470	10066
Lower Tule Irrigation District	92.13	98.62	0	0	0	2993	9632	0	0	6252	14462	15315	383	0	49037
Saucelito Irrigation District	100.64	107.45	165	0	0	311	738	357	367	2239	3588	5020	2384	504	15673
Tea Pot Dome Water District	99.35		20	0	0	38	204	258	357	421	555	601	454	327	3235
Terra Bella Irrigation District	102.65	103.64	85	0	0	48	700	865	498	920	1307	1728	1244	859	8254
Delano-Earlimart Irrigation District	109.46	118.45	1821	8	0	7819	12314	6008	5728	13593	15957	12212	6559	4225	86244
Southern San Joaquin Municipal Utility District	117.44	127.97	623	34	0	2095	11615	4439	3783	10620	15684	16179	6916	3513	75501
Shafter-Wasco Irrigation District	134.4	137.2	397	129	0	1347	7636	2854	3084	4998	5361	5921	2283	1341	35351
Pacific Gas and Electric Company	150.83		303	736	0	0	0	0	0	0	0	0	0	0	1039
Total			5256	1147	0	28706	48820	23808	21573	72081	77291	78429	36155	21306	414572

* Data furnished by U. S. Bureau of Reclamation.
a Delta-Mendota Canal water delivered via Mendota Pool.
b Temporary water from San Luis Wasteway Reservoir.
c Includes water transported from Wutchumne Ditch.

TABLE 222

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA

November 1960 through October 1961

Water User	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Total
						Cache Slough							
City of Vallejo a													
Total acre-feet	744	754	725	638	753	1051	1356	1592	1806	1474	1421	1172	13490
Average cubic feet per second	13	12	12	11	12	18	22	27	29	24	24	19	19
Monthly use in percent of seasonal	5.5	5.6	5.4	4.7	5.6	7.8	10.1	11.8	13.4	10.9	10.5	8.7	
						Old River							
Contra Costa Canal b													
Total acre-feet	5480	3310	3790	2990	3200	4880	7710	9390	11680	9940	8340	7381	78090
Average cubic feet per second	92	54	62	54	52	82	125	158	190	162	140	120	108
Monthly use in percent of seasonal	7.0	4.2	4.9	3.8	4.1	6.2	9.9	12.0	15.0	12.7	10.7	9.5	
Delta-Mendota Canal b													
Total acre-feet	29900	0	15070	42190	123300	167700	166700	228100	274600	231300	120500	81180	1481000
Average cubic feet per second	502	0	245	760	2005	2818	2711	3833	4466	3762	2025	1320	2046
Monthly use in percent of seasonal	2.0	0.0	1.0	2.9	8.3	11.3	11.3	15.4	18.6	15.6	8.1	5.5	

a Data furnished by City of Vallejo.
b Data furnished by U. S. Bureau of Reclamation.

TABLE 223

DESCRIPTION OF SALINITY OBSERVATION STATIONS

1960-61 Water Year

Station	Miles from Golden Gate (a)	Time Interval (b)		Location
		Hours	Min.	
				SAN FRANCISCO, SAN PABLO, AND SUISUN BAYS
Point Pinole	19.0	2	50	South shore of San Pablo Bay, at Point Pinole on wharf of Atlas Powder Company.
Crockett	27.7	3	30	West end of Carquinez Strait, south shore, 0.2 mile east of Carquinez Bridge on wharf of C. and H. Sugar Refining Corporation.
Benicia	32.5	3	50	East end of Carquinez Strait, north shore, 1.1 mile west of Southern Pacific Company railroad bridge at Benicia Arsenal.
Martinez	32.7	3	50	East end of Carquinez Strait, south shore, 1.0 mile west of Southern Pacific Company railroad bridge at Municipal Ferry Slip. (Bulls Head Point.)
West Suisun	37.0	4	10	West end of Suisun Bay, north shore, 2.5 miles northeast of Southern Pacific railroad bridge at service pier of U. S. Maritime Commission, Reserve Fleet mooring area.
Innisfail Ferry	47.3	4	50	Montezuma Slough, about one mile east of junction with Cutoff Slough near north end of Grizzly Island.
Port Chicago	41.0	4	20	South shore of Suisun Bay at U. S. Naval ammunition loading wharf below Port Chicago.
Spoonbill Creek	48.9	5	05	At Sacramento Northern Railroad crossing.
Pittsburg	48.0	5	00	East end of Suisun Bay, south shore, at Pittsburg Yacht Harbor.
				SACRAMENTO RIVER DELTA
Collinsville	50.8	5	25	Sacramento River, north bank at junction with San Joaquin River.
Emmaton	57.6	5	45	Sacramento River, south bank, 5.9 miles downstream from Rio Vista Bridge.
Threemile Slough Bridge	60.0	5	55	Threemile Slough, at State Highway 24 bridge, near junction with Sacramento River.
Rio Vista Bridge	63.5	6	05	Sacramento River, at highway bridge near northerly limits of Rio Vista.
Isleton Bridge	68.7	6	30	Sacramento River, at highway bridge 1.0 mile upstream from Isleton.
				SAN JOAQUIN RIVER DELTA
Antioch	54.9	5	55	San Joaquin River at City Water Works pumping plant.
Antioch Bridge	58.2	6	10	South shore San Joaquin River at Antioch Bridge.
Jersey Island	61.4	6	20	San Joaquin River, left bank, one mile below mouth of False River.
Threemile Slough	64.2	6	30	Threemile Slough, west bank, at junction of slough with the San Joaquin River.
Oulton Point	67.2	6	40	San Joaquin River, right bank, three miles upstream from junction of Threemile Slough.
San Andreas Landing	70.3	6	55	San Joaquin River, right bank, one mile below the mouth of the Mokelumne River.
Opposite Central Landing	72.0	7	00	Mokelumne River on Andrus Island directly opposite Central Landing on Bouldin Island.
Dutch Slough	73.0	7	05	At Bethel Island Bridge.
East Contra Costa I. D.	86.7	8	20	Indian Slough at East Contra Costa Irrigation District pumping plant.
Clifton Court Ferry	94.2	9	10	Old River, right bank, 1.5 miles below junction with Grant Line Canal.
Mossdale Bridge	108.5	10	50	San Joaquin River at U. S. 50 Highway crossing about three miles southwest of Lathrop.
Vernalis	127.0	11	00	San Joaquin River at Durham Ferry Bridge above tidal influence.

a Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the same distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.

b Time interval between high tide at Golden Gate and time for taking samples at station.

TABLE 22-4

MAXIMUM OBSERVED SALINITY AT BAY AND DELTA STATIONS

In parts of chloride per million parts of water*

Station (a)	Water Year											
	1931	1938	1939	1944 [b]	1952	1955	1956 [c]	1957	1958	1959	1960	1961
Sacramento-San Joaquin System Unimpaired Runoff in percent of average (d)	34	188	49	62	168							
San Francisco, San Pablo and Suisun Bays												
Point Pinole					14200	19000	16200	17300	13800	17200	16400	15000
Crockett					13200	16600	15300	15100	11900	15000	13500	19900
Benicia				13900	10400	15100	12300	13900	12100	19200	13000	14000
Martinez	16900	11600	16400		8900	11900	11900	9570	7150	10200	8750	11600
West Suisun					7900	12600	11200	11800	7520	13200	11100	13200
Innisfail Ferry	14000	3300	13600	7900	4200	5780	5200	6050	3040	9640	6610	13900
Port Chicago					6900	12500	9750	10200	5830	15640	10700	11900
Spoonbill Creek	13900	2560	11800	7300	2800	6400	4040	3920	930	6270	5040	5900
Pittsburg					1200	7800	3440	3050	1200	5110	3700	3920
Sacramento River Delta												
Collinsville	12600	860	10400	4700	783	3880	2280	2690	550	5430	4500	4300
Emmaton						1080	158	452	29	2600	1580	2070
Threemile Slough Bridge	8600		5900	1610	175	635	56	277	18	1480	807	633
Rio Vista Bridge	7400		4050	550	175	158	21	20	17	219	87	69
Isleton Bridge	6350		2500	50	125	23	17	14	14	20	19	18
San Joaquin River Delta												
Antioch	12400	510	9200	4000	354	3320	1270	1850	184	3410	2800	2930
Antioch Bridge						2360	160	1630	122	2570	1490	1360
Jersey Island						1130	152	602	52	1220	e	e
Threemile Slough						428	82	180	45	1900	451	489
Oulton Point						376	105	186	44	567	406	596
San Andreas Landing						98	66	51	46	248	125	345
Opposite Central Landing	4250	100	1380	200	250	36	96	40	17	46	58	34
Dutch Slough	5100	110	2250	690	88	454	107	250	110	1044	548	825
East Contra Costa Irrigation District			320	140	152	196	173	551	333	356	227	278
Clifton Court Ferry	1300		190		112	146	146	146	126	211	173	191
Mossdale Bridge	120	120	160	130	122	224	206	205	219	261	318	346
Vernalis (f)					121	231	202	182	146	297	206	508

* Ocean water contains approximately 18,200 parts per million.

a For location see Plate 2.

b Releases of stored water from Shasta Lake commenced in 1944.

c Releases of stored water from Folsom Reservoir commenced in 1956.

d Average taken as a mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1907 through September 1957.

e No record. Unable to obtain local observer.

f Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per milllon parts of water

Station	October 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		15000	14000	d14700	14700			
Crockett	13000	12600	12800	11900	13600	13800	12400	12600
Benicia	9390	10200	10200	10200	11500	11400		ad10600
Martinez								
West Suisun								
Innisfall Ferry	5200	a 4950	a 5180	5010	a 5050	a 4970	5070	
Port Chicago	7390	8150	6930	6420	a 7240	8670	7180	7050
Spoonbill Creek	3040	2860	2740	2720	3130	3240	3260	2800
Pittsburg								
			Sacramento River Delta					
Collinsville	1480	2020	a 1430	1710	1880	2160		1770
Emmaton	390	388	d,e 357	a,b 190	419	733	a 490	424
Threemile Slough Bridge	56	91	82	82	76	202		98
Rio Vista Bridge	12	12	a 11	14	14	10	10	12
Isleton Bridge	11	14	11	a,b 12	10	10	11	11
			San Joaquin River Delta					
Antioch	843	1160		681	1080	1460	948	943
Antioch Bridge		202	228	a,b 150	171	159	248	362
Jersey Island								
Threemile Slough	62	61	a 45	40	55	52	a 53	
Oulton Point	a,b,d 58	76	a,b 52	55	62	82	a 32	55
San Andreas Landing	17	25	14	d 14	16	a 21	a 20	20
Opposite Central Landing	12	a 12	a 11		17		a 12	
Dutch Slough	139	a 125	a 117	104	101	80	a 80	49
East Contra Costa I. D.	99	a 125	112	107	108	a 114	a 107	144
Clifton Court Ferry			76	94	77	a 73	a 93	88
Mossdale Bridge		a 223	a 234	201	a 139	a 145	a 190	154
Vernalis (g)								

Station	November 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	13900		14000	14500	13800			
Crockett	13500	12600	10900		11800	10600	10800	10500
Benicia		10900	8580	8600	9280	8380	6900	8320
Martinez								
West Suisun								
Innisfall Ferry	a 13900	a 5000	5150	4710	a 5070	a 4150		4400
Port Chicago	a 6900	7430	6650	b 5400	6120	3470	4550	4910
Spoonbill Creek	2790	2590	2170	2100				643
Pittsburg								
			Sacramento River Delta					
Collinsville	a 2110	1690	1120	1090	785	a 724	433	154
Emmaton	468	488	a 163	133	64	a 32	a 46	40
Threemile Slough Bridge		a 70	a 38	25	16	16	17	12
Rio Vista Bridge	12	26	7	11	13	10	10	8
Isleton Bridge	8	7	11	7	a 9	8	9	8
			San Joaquin River Delta					
Antioch	1010	1030	591	558	264	186	245	174
Antioch Bridge	304	120	91	54	133	43	40	34
Jersey Island								
Threemile Slough	44		22	22	22	a 21	21	
Oulton Point		a 35	36	22	22		20	16
San Andreas Landing	22	22	25	21	19	a 22	19	20
Opposite Central Landing	20	11	10	9	10	a 9	13	7
Dutch Slough	66	64	67	35	a 51	a 45	46	46
East Contra Costa I. D.	65	a,b 80	98	112	a 111	a 106	110	106
Clifton Court Ferry	72	112	154	143	143	a 134	141	144
Mossdale Bridge	a 142	a 132	140	a,b 125	a 132	a 153	142	a 158
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* Presumed.
a Taken after low-high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	December 1960							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Pinole		9100						
Crockett	a 10500	7370	7740		10900	8300	a 7320	
Benicia	5330	2190	4450	8460	7230	5770	5430	
Martinez								
West Suisun								
Innisfail Ferry					2360	2630	2130	2190
Port Chicago	3350	572	1910	5380	6130	3270	3320	a 2940
Spoonbill Creek	662	88	79	465	800	426	279	378
Pittsburg								
				Sacramento River Delta				
Collinsville	252	14	33	327	346	a 33		
Emmaton	27	10	13	16	27	a 15	15	23
Threemile Slough Bridge	14		11	15	15	11	12	15
Rio Vista Bridge	8	8	9	10	9	8	9	10
Isleton Bridge	11	8	8	12	7	7	9	10
				San Joaquin River Delta				
Antioch	90	46	32	45	103	56	44	57
Antioch Bridge	40	35	a 32	30	36		35	
Jersey Island								
Threemile Slough	21	a 6	22	21				23
Oulton Point	d 17		d 19		23	a 22	20	
San Andreas Landing	18	20	22	24	25	a 27	18	24
Opposite Central Landing	8	a 15	12	20	16	a 13		
Dutch Slough	246	a 48	46	48	50	a 53	56	56
East Contra Costa I. D.	a 119	a 138	148	153	a 156	a 160	153	154
Clifton Court Ferry	154	a 158	139	143	130	128	136	
Mossdale Bridge	a 141	a 116	108	131	a 116	a 120	117	a 116
Vernalis (g)								

Station	January 1961							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Pinole								
Crockett			9190	10700	11000	11700	10400	10000
Benicia	5770			8360	7180	8500	7620	7050
Martinez								
West Suisun						5100		
Innisfail Ferry	a 2490	2640		2380	a3540	2880	2780	2610
Port Chicago	3930			5690		5160	6720	4900
Spoonbill Creek	524	478	551	834	980	700	1030	745
Pittsburg								
				Sacramento River Delta				
Collinsville		34		260		133		371
Emmaton	a 20	21		28	39	a 31	51	a 34
Threemile Slough Bridge	18	15	15	16	17	15	19	18
Rio Vista Bridge	10	9		9	10	10	12	13
Isleton Bridge	7	10		10	9	8	8	12
				San Joaquin River Delta				
Antioch	71	55		130	140	151	193	146
Antioch Bridge	41	a 41		43	47	42	51	54
Jersey Island								
Threemile Slough	23	25	28	32	a 28	27		31
Oulton Point	22			25	29			32
San Andreas Landing	27	28		29	29	30	26	30
Opposite Central Landing	a 15	a 11	11	10	a 10	11	17	a 16
Dutch Slough	15	62		67	a 69	70	d 78	76
East Contra Costa I. D.	157	133		164	a 165	150	158	a 176
Clifton Court Ferry	a 137			138	a 131	141	146	a 161
Mossdale Bridge	a 113	118	122	a 143	a 142	131	a 148	a 132
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* Presumed.
a Taken after low-high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	February 1961							
	2	6	10	14	18	22	26	
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett	7600	5240	5600	4720	3220	4380	6420	
Benicia	3980	4930	4720	2340			5300	
Martinez								
West Suisun	2550	495		186			2960	
Innisfail Ferry	2780	1870	1030	995	1380	1090	1100	
Port Chicago	2150	412	2020	178	52	531	1580	
Spoonbill Creek	310	48	41	35	32	31	40	
Pittsburg								
			Sacramento River Delta					
Collinsville	a 25	16	15	11	12	12	13	
Emmaton	19	12	14	d 13	11	14	11	
Threemile Slough Bridge	21	18	12	14	12	10	8	
Rio Vista Bridge	9	8	11	8	6	10	8	
Isleton Bridge	6	4	9	5	7	8	8	
			San Joaquin River Delta					
Antioch	63	45	40	38	43	40	35	
Antioch Bridge		63	51	51		52	45	
Jersey Island								
Threemile Slough	a 32	30	27	43	28			
Oulton Point	30	32	25	30	27	27	27	
San Andreas Landing	36	38	23	28	26	11	27	
Opposite Central Landing	a,d 10	10	17	d 8	8	14		
Dutch Slough	a 80	97	d 88	d 93	91	70	67	
East Contra Costa I. D.	a 182	201	152	198	197	191	a 186	
Clifton Court Ferry	a 150	140	156	170	184	191	185	
Mossdale Bridge	a 121	142	177	a 165	198	206	a 218	
Vernalis (g)								

Station	March 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett				8400	5520		5350	6420
Benicia	4230	6100	5030	4880	3100	2060	2360	4800
Martinez								
West Suisun	a 2990		a 1530		1470	595	367	
Innisfail Ferry	833	a 910	d 943	600	a 733	d 943	981	967
Port Chicago	1480	1560	2080					
Spoonbill Creek	42	35	44	47	57	33	34	2[illegible]
Pittsburg				76				
			Sacramento River Delta					
Collinsville	17	16	18	22	a 15	[illegible]	15	17
Emmaton	16	16	14	15	a 10	9	7	7
Threemile Slough Bridge	12	14	10	10	10	10	8	6
Rio Vista Bridge	9	11	14	10	11	9	8	7
Isleton Bridge	7	8	9	6	5	5		4
			San Joaquin River Delta					
Antioch	a,d 34	32	32	32	32	28	18	a 18
Antioch Bridge	45	a 46	46	37	a 31	28	20	a 21
Jersey Island								
Threemile Slough	25	21	18	16	12	13	10	
Oulton Point		23	19	16	a 16	13		10
San Andreas Landing	22	28	18	14	13	9	8	a 9
Opposite Central Landing			6	a 6	6	8	5	d 4
Dutch Slough	60	a 69	62	58	51	38	34	a 32
East Contra Costa I. D.	a 158	105	95	63	60	103	90	67
Clifton Court Ferry	184	152	118	95				
Mossdale Bridge	a 209	270	250	a 301	299	248		228
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* Presumed.
a Taken after low-high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	April 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett		7050	6930	7540		7770	8840	9680
Benicia	2860	5900	b 5180	6020	7140		6900	8300
Martinez								
West Suisun	1080	2050	b 2170	2270	4230	2860	4550	5490
Innisfail Ferry	a,d 817	521	a 574		a 445	a,d 570	a 564	a 460
Port Chicago						2970	5580	2530
Spoonbill Creek	21	22	a 27	a 28	a 100	a 133	a 335	a 767
Pittsburg								
			Sacramento River Delta					
Collinsville	14	16	a 11	a 12	48	a 39	a 52	a 150
Emmaton	8	10	a 9	a 9	17	a 40	a 14	a 31
Threemile Slough Bridge		10	b 7	8	8	b 8	8	9
Rio Vista Bridge	9	13	b 6	7	7	b 8	7	11
Isleton Bridge	4	7	b 5	5	7	b 6	7	9
			San Joaquin River Delta					
Antioch	15	15	a 16	a 21	37	a 53	a 52	a 83
Antioch Bridge	a 24	18	a 14	a 20	16	a 24	a 24	a 29
Jersey Island								
Threemile Slough		10	a 11	8	a 9			
Oulton Point	a 8	11	a 10	a 10	10	a 10	a 18	a 11
San Andreas Landing	a 7	8	a 5		10	a 9	a 8	a 10
Opposite Central Landing	a 7	5		a 6	8	a 7	8	9
Dutch Slough	32	21	a,d 21	17	18	a 18		
East Contra Costa I. D.	66	42	39	35	20	a 22	a 29	20
Clifton Court Ferry								
Mossdale Bridge	294	273	a 296	328	249	a 222	210	236
Vernalis (g)							248	278

Station	May 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett	11000		11100	11500	11300	10700	11000	11600
Benicia	9350	7750	8760	9090	10400	8150	8980	
Martinez								
West Suisun		4040		6860	7590	5830	6270	6630
Innisfail Ferry		1020		a 1620	1880		a 1530	a 1700
Port Chicago	5980	a 3240	5440	6610	a 4820	b 5370	5670	6560
Spoonbill Creek	a 805	857	a 833	a 931	798		524	649
Pittsburg					532	416	d 186	
			Sacramento River Delta					
Collinsville	805	528	a 310	a 319		a 242	a 96	a 227
Emmaton	65	53	a 37	a 32	139	a 39	a 19	a 39
Threemile Slough Bridge	10	17	14	10	17	b 16	13	16
Rio Vista Bridge	8	10	11	17	12	b 14	10	12
Isleton Bridge	9	a,b,d 12	11	11	15	b 15	10	12
			San Joaquin River Delta					
Antioch	a 117	62	a 170	a 153	306	a 140	a 86	a 136
Antioch Bridge	a 32	47	a 44	48	a 63	a 53	a 34	a 42
Jersey Island								
Threemile Slough	a 13		a 3		21			13
Oulton Point		13	a 13	16	21	a 19	a 15	16
San Andreas Landing	11	11	a 10	12	16	a 17	a 12	15
Opposite Central Landing	12		25	16	14	a 13		12
Dutch Slough	19	25	a 11	26	27	a 31		a 24
East Contra Costa I. D.	22	20	24	24	21	a 26	27	24
Clifton Court Ferry				116	30	a 31	a 23	a 23
Mossdale Bridge	220	a 248	a 238	226	255	a 278	231	233
Vernalis (g)	304	305	190	242	a 276	a 259	213	231

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.

* Presumed.

a Taken after low-high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off scheduled time.

e Taken on preceding day.

f Taken two days earlier.

g Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	June 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett			11300	11300		e 12600	19900	15600
Benicia	10400	7940	9160	9190	8170	e 11400	11500	13800
Martinez								
West Suisun	7460	7140		7120		e 9900	11700	
Innisfail Ferry	1950	a 1820		a 2100	2110		a 2820	
Port Chicago	6730	b 4850	6760	6920	5520	e 7810	9970	9360
Spoonbill Creek	1010	a 1040	a 1090	a 1250	a 2110	a 2270	a 3820	3230
Pittsburg		b,d 394		d 906		a,d 1810	a,d 1900	
			Sacramento River Delta					
Collinsville	962	a 406	a 300	a 608	a 1270	a 1520	a 2080	2480
Emmaton	150	a 49	a 32	92	a 381	a 462	a 376	a 532
Threemile Slough Bridge	18	b 17	17	19		49	73	163
Rio Vista Bridge	12	b 11	11	12	13	34	24	31
Isleton Bridge	18	11	13	13		12	12	13
			San Joaquin River Delta					
Antioch	401	a 210		a 369	536	a 537	a 900	a 1330
Antioch Bridge	a 53	a 60	a 71	a 80	168	a 220	a 366	a 445
Jersey Island								
Threemile Slough	20	a 17		a 18	d 24	a 82	a 100	a 92
Oulton Point	22	a 18	a 17	28	a 40		a 84	127
San Andreas Landing	13	a 13	a 15	15	a 17	a 17	a 29	54
Opposite Central Landing	11			14	a 13	a 14	a 14	16
Dutch Slough	26	a 31	a 29	a 33	a 50	a 76	a,d 111	147
East Contra Costa I. D.	23	a 29	a 28	20	a 20	22	24	32
Clifton Court Ferry	23	a 23	24	21	a 22	a 19	a 21	d 24
Mossdale Bridge	241	a 288	257	281	a 273	a 263	183	300
Vernalis (g)	270	a 255	308		a 340		317	

	July 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett	14200	e 13600	12500	14900	15400	e 15000	14700	14500
Benicia	13300	e 11700	12700	14000	12000	e 13600	13700	13600
Martinez								
West Suisun	10700		10300	12300	11000	e 13200	13100	12200
Innisfail Ferry	d 3910		a 5060		6260		a 5760	a 6520
Port Chicago	9450	e 8760	9820	11700	9160	e 11900	11300	11000
Spoonbill Creek	3320	a 3920	a 3830	a 5000	a 4550	a 5180	a 5900	5530
Pittsburg		a,d 2730	a 2930		3920			
			Sacramento River Delta					
Collinsville	3200		a 2660	a 3610	a 4110	a 4300	a 4130	4240
Emmaton	709	a 682	a 1120	1870	a 1210	a,b 1110	a 1390	2070
Threemile Slough Bridge	266	214	491	607		366	d 559	633
Rio Vista Bridge	36	25	69	22	17	27	52	34
Isleton Bridge	13	16	12	13	14	15	14	10
			San Joaquin River Delta					
Antioch	1760	a 1160	a 1820	a 2060	2730	a 2430	a 2550	2930
Antioch Bridge	a 641	a 463	a 738	a 981	1220	a 1360	a 1150	1400
Jersey Island								
Threemile Slough			a 174	a 258	a 402	a 428		a,d 392
Oulton Point	161		a 206	411	a 378	a 392	a 422	596
San Andreas Landing	51	a 19	107	158	a 142	a 173	345	134
Opposite Central Landing	18	a 20	a 20	26	a 18	a 16	a 16	17
Dutch Slough	140	a 218	a 179	534	a 439	a 475	825	737
East Contra Costa I. D.	14	a 57	64	84	b 139	a 178	178	212
Clifton Court Ferry	26	a 30	31	41				80
Mossdale Bridge	346	a 286	218	187	a,d 178	a 160	104	96
Vernalis (g)	307	a 364	365	486	a 378		413	393

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.

* Presumed.

a Taken after low-high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off scheduled time.

e Taken on preceding day.

f Taken two days earlier.

g Station located above tidal action.

TABLE 225

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	August 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett			14600	14000	13800	e 14100	14200	13900
Benicia	12900	12100	12600	12700	11500	e 12500	12800	11400
Martinez								
West Suisun		12100	12100		8460	11700	11200	
Innisfail Ferry	a 6350	a,d 5950	a 6520	a 6300	6200	a 6120	a 6140	6000
Port Chicago	9690	10200	10500	9790	a 7530	10800	9960	8760
Spoonbill Creek	5030	4940	a 5200	4620	3820	4340	a 4420	4040
Pittsburg				d 3840	2360			d 2880
			Sacramento River Delta					
Collinsville		a 3090	a 3650	3860		a 2890	a 2510	a 2670
Emmaton	a 1440	a 724	a 1110	1570	a,b 402	a 944	a 891	a 852
Threemile Slough Bridge	619	619	566	a 278	260	238	232	201
Rio Vista Bridge	32	31	12	12	14	10	13	15
Isleton Bridge	b 10	10	13	10	13	14	10	10
			San Joaquin River Delta					
Antioch	2790	a 2000	a 2480	2160	a 1640	a 1550		a 1800
Antioch Bridge		a 1100	a 1300		770	a 822	a 809	671
Jersey Island								
Threemile Slough	a 489		a 422		a 240	a 326	a 252	a 210
Oulton Point	a 416	a 314	566	355		a 256	300	a 200
San Andreas Landing	a 101	a 96	44	182	a 44	a 58	60	a 56
Opposite Central Landing	a,d 17		34	21	a 10	a 14	13	a 13
Dutch Slough	a 631	a,d 614	701	681	a 542	a 513	489	a 382
East Contra Costa I. D.	b 255	a 249	278	269	a 270	a 258	227	a 201
Clifton Court Ferry		a 104	107	106	a 103	104	102	a 94
Mossdale Bridge	a 124	115	99	101		233		a 318
Vernalis (g)	a,d 374	443	508	344	a 347	300	322	a 301

Station	September 1961							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole								
Crockett	e 13500	13300	13300	13200	12100	12700		10900
Benicia	e 10200	11500		10100	10200	11800	9220	9820
Martinez			a 11600	11600	10900	a 10500	10600	10400
West Suisun	e 9670	9650	9280	9820	9120	9960		
Innisfail Ferry	a 6140		a 6000	5810	a 5930			
Port Chicago	e 9010	a 7360	8210	8140		8390	a 6300	7090
Spoonbill Creek	e 4160	a 4000	a 4380	3840	3240	a 3440	3000	3090
Pittsburg		a 3080					1420	a 1730
			Sacramento River Delta					
Collinsville		a 2550		a 2160	a 1550	a 1650	a 1450	a 1380
Emmaton	a 320	a 620	a 698	588	a 218	a 378	418	a 273
Threemile Slough Bridge	e 162	182	181	129	b 113	d 121	114	108
Rio Vista Bridge	e 13	16		17	b 15	15	15	15
Isleton Bridge	a 12	11	12	15	b 13	14	11	14
			San Joaquin River Delta					
Antioch	a 962	1810	a 1270	1570	a 727	a 834	1180	1020
Antioch Bridge	a 547	a 484	a 404		a 308	a 284	207	218
Jersey Island								
Threemile Slough		a 156	a 130	d 87	a 57	a 77	62	a 71
Oulton Point	a 152	a 123	179	108	a 76	115	73	a 73
San Andreas Landing	21	a 57	49	a 41	a 32	a 35	31	a 24
Opposite Central Landing	a 12		17	a 16	a 14	a 14	a 13	
Dutch Slough	a 329	a 290	262	a 232	d 185	a 182	a 143	a 125
East Contra Costa I. D.		189	176	165	a 153	149	127	b 113
Clifton Court Ferry	a 86	85	91	a 89	a 80	77	a 67	a 71
Mossdale Bridge	267	d 283	d 274	d 272	a,d 287	d 277	a 280	a 282
Vernalis (g)	a,d 277	249			a 284	263	a 278	a 273

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* Presumed
a Taken after low-high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 226

DAILY GAGE HEIGHT*
BIG SAGE RESERVOIR NEAR ALTURAS

In feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.05	12.80	13.00 E	13.20 E	13.30	13.75	14.30	13.90	13.05	11.65	9.90	8.35
2	13.00	12.80	13.00 E	13.20 E	13.30	13.75	14.30	13.90	13.05	11.60	9.80	8.25
3	13.00	12.80	13.00 E	13.20 E	13.40	13.75	14.30	13.85	13.05	11.50	9.70	8.20
4	13.00	12.75	13.05 E	13.20 E	13.40	13.75	14.30	13.80	13.00	11.45	9.65	8.15
5	12.95	12.75	13.05 E	13.20 E	13.45	13.75	14.25	13.75	13.00	11.40	9.55	8.10
6	12.95	12.75	13.05 E	13.20	13.45	13.75	14.25	13.75	12.95	11.35	9.50	8.05
7	12.95	12.80	13.05 E	13.20	13.45	13.75	14.25	13.70	12.95	11.35	9.45	7.95
8	12.95	12.80	13.05 E	13.20	13.45	13.75	14.25	13.65	12.90	11.30	9.35	7.90
9	12.95	12.75	13.05 E	13.20	13.45	13.75	14.25	13.60	12.85	11.30	9.30	7.85
10	12.90	12.75	13.05 E	13.20	13.50	13.75	14.20	13.60	12.85	11.25	9.20	7.85
11	12.90	12.80	13.05 E	13.20	13.55	13.80	14.20	13.60	12.80	11.20	9.15	7.80
12	12.90	12.80	13.10 E	13.20	13.60	13.80	14.20	13.65	12.75	11.15	9.10	7.80
13	12.90	12.80	13.10 E	13.20	13.60	13.80	14.20	13.60	12.70	11.15	9.10	7.75
14	12.85	12.85	13.10 E	13.20	13.60	13.75	14.15	13.60	12.70	11.10	9.10	7.70
15	12.85	12.85	13.10 E	13.20	13.65	13.80	14.15	13.60	12.65	11.05	9.05	7.70
16	12.85	12.85	13.10 E	13.20	13.70	13.80	14.15	13.60	12.60	10.95	9.05	7.65
17	12.85	12.85	13.10 E	13.20	13.70	13.80	14.15	13.55	12.60	10.90	9.00	7.65
18	12.85	12.90	13.10 E	13.20	13.70	13.80	14.15	13.55	12.55	10.85	9.00	7.65
19	12.85	12.90	13.10 E	13.20	13.70	13.80	14.15	13.55	12.50	10.80	8.95	7.60
20	12.85	12.90	13.10 E	13.20	13.75	13.80	14.10	13.50	12.45	10.75	8.95	7.60
21	12.85	12.90	13.15 E	13.20	13.75	13.80	14.05	13.50	12.40	10.70	8.95	7.55
22	12.85	12.90	13.15 E	13.20	13.75	13.80	14.05	13.45	12.35	10.65	8.90	7.55
23	12.80	12.90	13.15 E	13.20	13.75	13.80	14.10	13.45	12.25	10.60	8.85	7.50
24	12.80	12.85	13.15 E	13.20	13.70	13.85	14.10	13.40	12.20	10.50	8.80	7.45
25	12.80	12.90	13.15 E	13.20	13.75	13.90	14.05	13.35	12.15	10.45	8.75	7.45
26	12.80	12.95	13.15 E	13.20	13.75	14.05	14.05	13.30	12.05	10.35	8.70	7.45
27	12.80	13.00	13.15 E	13.20	13.75	14.20	14.05	13.25	12.00	10.30	8.65	7.40
28	12.80	12.95 E	13.15 E	13.20	13.75	14.25	14.00	13.20	11.90	10.20	8.60	7.40
29	12.80	13.00 E	13.20 E	13.20		14.25	14.00	13.15	11.85	10.15	8.55	7.35
30	12.80	13.00 E	13.20 E	13.20		14.30	13.95	13.15	11.75	10.05	8.50	7.35
31	12.80		13.20 E	13.25		14.30		13.10		9.95	8.40	

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Gage heights shown are gage heights to nearest 0.05 foot.

TABLE 227

DAILY GAGE HEIGHT*
WEST VALLEY RESERVOIR NEAR LIKELY

In feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3											-2.9	
4												
5				2.0								-6.9
6									9.0			
7										6.7		
8					3.9							
9												
10												
11												
12			0.9									
13							9.8					
14												
15						7.8					-6.7	
16								9.5				
17												
18		-1.5		2.7								
19										4.4		-8.6
20					5.5							
21												
22		-1.0	1.4						8.9			
23												
24												
25				3.0								
26	-3.2						10.3					
27												
28												
29												
30						8.8						
31												

E - Estimated NR - No Record

* Individual staff gage readings (some are negative-as shown)
Assumed datum

TABLE 228

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT KESWICK

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	10.4	10.9	8.3	8.4	14.6	10.7	11.8	12.1	17	9.0	8.0	8.3	15.6	14.7	10.7	11.5	12.8
2	10.4	10.1	8.3	8.4	14.6	10.7	11.8	12.1	18	8.7	7.9	8.3	15.5	14.7	11.2	11.5	12.8
3	10.4	8.0	8.3	8.4	14.6	10.7	11.8	12.1	19	8.6	7.9	8.3	15.5	14.7	11.5	11.5	13.0
4	10.4	7.8	8.3	8.4	14.6	10.7	11.8	12.1	20	8.6	7.8	8.3	15.5	14.7	11.5	11.5	13.4
5	10.4	7.8	8.3	8.3	14.6	10.7	11.8	12.1	21	8.6	7.8	8.3	15.5	14.7	11.5	11.5	13.5
6	10.4	7.8	8.3	8.3	14.6	10.7	11.8	12.1	22	8.3	7.8	8.3	15.5	14.7	11.5	11.5	13.7
7	10.4	7.8	8.3	8.3	14.6	10.7	11.8	12.1	23	8.3	7.8	8.3	15.5	14.7	11.5	11.5	13.8
8	10.4	7.8	8.3	8.3	14.6	10.7	11.8	12.1	24	8.3	7.8	8.3	15.5	14.7	11.5	11.5	13.8
9	10.4	7.8	8.3	8.8	14.6	10.7	11.8	12.1	25	9.3	7.8	8.3	15.6	13.1	11.2	11.5	13.8
10	10.4	7.8	8.3	10.4	14.6	10.7	11.8	12.1	26	9.1	7.8	8.3	15.5	11.9	11.1	11.5	13.8
11	10.4	7.8	8.3	12.8	14.6	10.7	11.8	12.2	27	8.4	7.8	8.3	15.5	10.3	11.2	11.5	13.8
12	10.1	7.8	8.3	14.7	14.6	10.7	11.7	12.1	28	8.4	7.8	8.3	15.5	10.3	11.5	11.5	13.8
13	10.0	7.8	8.3	15.1	14.6	10.7	11.4	12.1	29	8.4	7.8	8.5		10.6	11.7	11.5	13.8
14	9.5	7.8	8.3	15.6	14.7	10.7	11.5	12.5	30	8.6	7.8	8.5		10.8	11.9	11.5	13.8
15	9.3	7.8	8.3	15.6	14.7	10.7	11.5	12.7	31		7.8	9.6		10.8		11.8	
16	9.3	8.0	8.3	15.5	14.7	10.7	11.5	12.8									

Crest Stages:	Date	2-15-61
	Time	1400
	Stage	15.7

E - Estimated NR - No Record

TABLE 229

DAILY MEAN GAGE HEIGHT
CLEAR CREEK NEAR IGO

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NR	NR	3.2	5.6	3.6	4.1	3.4	3.0	17	2.6	NR	2.9	4.7	5.9	3.4	3.2	2.7
2	NR	NR	3.1	5.2	3.6	4.1	3.3	3.1	18	NR	NR	2.9	4.5	5.2	3.4	3.2	2.7
3	NR	NR	3.1	5.1	3.6	4.0	3.3	3.0	19	2.7	5.1	2.9	4.3	5.0	3.4	3.1	2.7
4	NR	NR	3.1	4.7	3.5	4.0	3.3	3.0	20	2.6	4.5	2.9	4.2	4.7	3.4	3.1	2.7
5	NR	NR	3.1	4.4	3.6	3.9	3.2	3.0	21	2.6	4.2	2.9	4.1	4.5	3.5	3.1	2.7
6	NR	NR	3.0	4.2	3.6	3.9	3.3	3.0	22	NR	3.9	2.9	4.0	4.4	3.7	3.1	2.6
7	NR	NR	3.0	4.0	3.5	3.8	3.3	2.9	23	NR	3.8	2.9	3.9	4.3	3.5	3.1	2.6
8	NR	NR	3.0	4.0	3.6	3.7	3.2	2.9	24	NR	3.6	2.9	3.8	4.4	3.5	3.1	2.6
9	NR	NR	3.0	5.0	3.7	3.7	3.2	2.9	25	4.2	3.5	2.9	3.8	4.4	3.4	3.0	2.6
10	NR	NR	3.0	5.4	3.7	3.6	3.4	2.9	26	3.5	3.4	3.1	3.7	4.6	3.4	3.1	2.6
11	NR	NR	3.0	6.2	3.7	3.6	3.4	2.9	27	3.2	3.4	3.2	3.7	4.6	3.4	3.0	2.6
12	NR	NR	3.0	5.6	3.7	3.6	3.4	2.8	28	3.0	3.3	3.2	3.6	4.4	3.4	3.0	2.6
13	NR	NR	3.0	5.1	3.7	3.6	3.3	2.8	29	2.9	3.3	4.3		4.3	3.4	3.0	2.6
14	NR	NR	2.9	4.9	3.9	3.5	3.3	2.8	30	NR	3.2	4.9		4.2	3.4	3.1	2.6
15	NR	NR	2.9	5.1	5.9	3.5	3.2	2.8	31		3.2	6.6		4.2		3.1	
16	2.6	NR	2.9	4.9	5.5	3.5	3.2	2.8									

Crest Stages:	Date	1-31-61
	Time	0800
	Stage	7.6

E - Estimated NR - No Record

TABLE 230

DAILY MEAN GAGE HEIGHT
BATTLE CREEK NEAR COTTONWOOD

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	2.4	7.7	2.6	2.8	3.0	3.2	3.0	3.0	17	2.6	3.1	2.6	3.6	3.9	3.1	3.0	3.0
2	2.4	4.1	2.6	5.0	3.0	3.2	3.0	3.2	18	2.8	3.0	2.6	3.5	3.3	3.1	3.0	3.0
3	2.4	3.4	2.6	4.0	3.0	3.3	2.9	3.1	19	2.8	2.9	2.6	3.4	3.3	3.1	3.1	2.9
4	2.4	3.0	2.6	3.5	3.0	3.3	2.9	3.1	20	2.6	2.8	2.6	3.3	3.8	3.0	3.2	2.8
5	2.4	2.9	2.6	3.2	2.9	3.3	2.9	3.1	21	2.6	2.7	2.6	3.2	3.3	3.0	3.1	2.8
6	2.4	2.8	2.6	3.3	2.9	3.2	3.0	3.1	22	2.6	2.7	2.6	3.2	3.3	3.1	3.1	2.8
7	2.5	2.7	2.6	3.2	2.9	3.2	3.0	3.0	23	2.5	2.7	2.6	3.1	3.4	3.1	3.1	2.8
8	2.5	2.8	2.6	3.2	2.9	3.1	3.0	3.0	24	2.6	2.7	2.6	3.1	3.6	3.0	3.1	2.7
9	2.5	2.7	2.6	5.5	3.1	3.1	3.0	3.0	25	4.5 E	2.6	2.6	3.1	3.7	3.0	3.1	2.7
10	2.5	2.7	2.6	4.2	3.0	3.1	3.0	3.0	26	4.5 E	2.6	2.6	3.0	3.5	3.0	3.1	2.7
11	2.5	2.7	2.6	5.5	3.0	3.1	3.0	3.0	27	3.0	2.6	2.7	3.0	3.7	3.0	3.0	2.8
12	2.7	2.6	2.6	4.3	2.9	3.1	3.0	3.0	28	2.8	2.6	2.6	3.0	3.4	3.0	3.0	2.7
13	3.4	2.7	2.6	3.8	2.9	3.1	3.0	3.0	29	2.6	2.6	3.0		3.3	2.9	3.0	2.7
14	2.9	2.6	2.6	3.6	3.1	3.1	2.9	3.0	30	2.8	2.6	3.2		3.3	3.0	3.1	2.6
15	2.6	2.7	2.6	4.1	3.8	3.0	3.0	3.0	31		2.6	5.2		3.3		3.1	
16	2.6	2.9	2.6	4.1	3.4	3.0	3.0	3.0									

Crest Stages:		
	Date	12-1-60
	Time	1300
	Stage	11.9

E - Estimated NR - No Record

TABLE 231

DAILY MEAN GAGE HEIGHT
COTTONWOOD CREEK NEAR COTTONWOOD

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.0	6.2	3.2	6.7	3.5	3.9	3.3	2.8	17	3.0	5.8	3.1	4.6	5.3	3.2	2.8	2.4
2	3.1	5.2	3.2	8.2	3.4	3.9	3.2	2.8	18	3.0	5.6	3.1	4.3	4.7	3.2	2.8	2.4
3	3.1	4.3	3.2	6.6	3.4	4.0	3.2	2.9	19	3.1	4.8	3.1	4.1	4.4	3.2	2.9	2.3
4	3.1	3.9	3.2	5.4	3.4	4.0	3.1	2.9	20	3.0	4.3	3.1	4.0	4.5	3.2	2.9	2.3
5	3.1	3.7	3.2	4.8	3.4	4.0	3.1	3.0	21	3.0	4.0	3.0	3.9	4.4	3.2	2.9	2.2
6	3.1	3.5	3.2	4.5	3.5	3.8	3.1	2.9	22	3.0	3.8	3.0	3.8	4.2	3.4	3.0	2.2
7	3.1	3.4	3.2	4.3	3.4	3.7	3.2	2.8	23	3.0	3.7	3.1	3.8	4.4	3.4	2.9	2.2
8	3.1	3.3	3.1	4.1	3.4	3.6	3.1	2.8	24	3.0	3.6	3.1	3.7	4.5	3.3	2.8	2.2
9	3.1	3.3	3.1	6.3	3.5	3.5	3.1	2.7	25	3.2	3.5	3.0	3.7	4.4	3.3	2.8	2.2
10	3.1	3.3	3.1	6.3	3.4	3.4	3.1	2.7	26	3.4	3.4	3.3	3.6	4.4	3.3	2.8	2.1
11	3.1	3.3	3.1	6.4	3.4	3.4	3.1	2.6	27	3.3	3.4	4.0	3.6	4.4	3.3	2.8	2.1
12	3.1	3.2	3.1	5.8	3.4	3.4	3.1	2.6	28	3.2	3.3	3.6	3.6	4.2	3.3	2.8	2.1
13	3.1	3.2	3.1	5.2	3.4	3.4	3.1	2.5	29	3.2	3.3	5.1		4.1	3.3	2.8	2.1
14	3.1	3.2	3.1	5.0	3.5	3.3	3.0	2.5	30	3.2	3.3	6.5		4.0	3.3	2.8	2.1
15	3.1	3.2	3.1	5.0	4.7	3.3	2.9	2.5	31		3.2	8.1		3.9		2.8	
16	3.0	3.7	3.1	4.9	4.3	3.3	2.8	2.4									

Crest Stages		
	Date	1-31-61
	Time	1400
	Stage	10.8

E - Estimated NR - No Record

TABLE 232

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER NEAR RED BLUFF

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	1.8	11.9	1.4	6.8	5.0	3.3	3.1	3.0	17	1.5	5.3	1.4	6.5	7.2	2.5	2.7	3.2
2	1.8	7.0	1.4	7.4	4.8	3.3	3.1	3.2	18	1.7	5.0	1.4	6.2	6.2	2.6	2.7	3.2
3	1.8	4.6	1.4	6.0	4.8	3.3	3.0	3.2	19	1.7	3.5	1.3	5.9	5.8	2.8	2.7	3.2
4	1.8	2.4	1.4	4.1	4.7	3.2	3.0	3.1	20	1.5	2.6	1.3	5.8	6.3	2.8	2.7	3.4
5	1.8	2.0	1.4	3.4	4.8	3.1	2.9	3.1	21	1.4	2.2	1.3	5.6	5.7	2.8	2.7	3.5
6	1.8	1.7	1.4	3.0	4.8	3.0	3.0	3.1	22	1.4	2.0	1.3	5.6	5.5	3.0	2.7	3.5
7	1.9	1.6	1.4	2.8	4.8	3.0	3.1	3.1	23	1.3	1.8	1.4	5.5	5.5	3.3	2.7	3.6
8	1.9	1.5	1.4	2.6	4.8	2.8	3.0	3.0	24	1.3	1.7	1.4	5.4	5.8	3.3	2.7	3.6
9	1.9	1.4	1.4	7.2	5.3	2.7	3.0	3.0	25	2.8	1.6	1.4	5.4	6.1	3.0	2.6	3.6
10	1.9	1.4	1.4	7.2	5.0	2.7	3.0	3.0	26	5.3	1.5	1.4	5.3	5.2	3.0	2.7	3.6
11	1.9	1.3	1.4	8.6	5.0	2.7	3.1	3.0	27	2.5	1.4	1.8	5.3	5.3	2.7	2.7	3.6
12	2.0	1.3	1.4	7.7	4.9	2.6	3.1	3.0	28	1.8	1.4	1.7	5.2	4.1	2.8	2.7	3.6
13	2.8	1.2	1.4	6.6	4.9	2.7	2.9	2.9	29	1.6	1.4	2.3		3.8	2.9	2.6	3.6
14	2.6	1.2	1.4	6.9	5.0	2.6	2.8	3.0	30	1.7	1.3	6.1		3.6	3.1	2.7	3.6
15	1.7	1.3	1.4	7.3	6.8	2.6	2.8	3.1	31		1.3	9.1		3.4		2.8	
16	1.5	2.2	1.4	7.2	6.2	2.6	2.7	3.2									

Crest Stages:	Date	12-1-60
	Time	1700
	Stage	18.5

E - Estimated NR - No Record

TABLE 233

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT RED BLUFF

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.5	15.3	3.9	10.7	8.4	6.4	6.1	6.1 E	17	4.0	8.4	4.0	10.0	11.0	5.4	5.7	6.2
2	4.5	10.8	4.1	11.4	8.1	6.3	6.1	6.2 E	18	4.3	8.6	3.9	9.6	9.8	5.5	5.6	6.2
3	4.5	7.1	4.0	9.9	8.1	6.3	6.0	6.2	19	4.3	6.6	3.9	9.4	9.3	5.8	5.7	6.2
4	4.5	5.3	4.0	7.4	8.0	6.2	5.9	6.2	20	4.1	5.6	3.9	9.2	9.9	5.8	5.7	6.4
5	4.5	4.7	4.0	6.5	8.1	6.1	5.9	6.2	21	4.0	5.0	3.9	9.1	9.2	5.8	5.7	6.6
6	4.5	4.4	4.0	6.0	8.2	6.0	6.0	6.1	22	3.9	4.7	3.9	9.0	9.0	6.0	5.7	6.6
7	4.5	4.2	4.0	5.9	8.1	5.9	6.2	6.1	23	3.8	4.5	4.0	8.9	9.0	6.4	5.7	6.7
8	4.5	4.1	4.0	5.6	8.1	5.8	6.0	6.0	24	3.9	4.3	4.0	8.9	9.3	6.4	5.6	6.7
9	4.5	4.0	4.0	10.6	8.8	5.7	6.0	6.0	25	5.4	4.2	4.0	8.8	9.7	6.0	5.6	6.7
10	4.5	3.9	4.1	11.2	8.4	5.6	6.1	6.0	26	8.7	4.1	4.1	8.8	8.6	5.8	5.6 E	6.7
11	4.6	3.9	4.0	12.3	8.4	5.6	6.1	5.9	27	5.3	4.0	4.6	8.7	8.8	5.7	5.7 E	6.7
12	4.7	3.8	4.0	11.6	8.3	5.6	6.2	6.0	28	4.4	4.0	4.6	8.7	7.4	5.8	5.8 E	6.7
13	5.6	3.8	4.0	10.3	8.2	5.6	5.9	5.9	29	4.1	4.0	5.2		6.9	5.9	5.9 E	6.7
14	5.4	3.8	4.0	10.5	8.4	5.5	5.8	6.0	30	4.3	3.9	9.8		6.7	6.1	5.9 E	6.7
15	4.3	3.8	4.0	11.0	10.4	5.4	5.8	6.0	31		3.9	12.5		6.5		6.0 E	
16	4.1	4.9	4.0	10.9	9.8	5.4	5.7	6.3									

Crest Stages:	Date	11-26-60	12-1-60	12-17-60	1-31-61	2-2-61	2-9-61	2-11-61	3-17-61
	Time	0115	1800	2345	2000	1800	2130	1430	1130
	Stage	10.8	21.2	10.5	17.0	13.8	15.6	15.3	12.1

E - Estimated NR - No Record

TABLE 234

DAILY MEAN GAGE HEIGHT
ANTELOPE CREEK NEAR RED BLUFF

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	3.0	8.5	3.1	5.2	3.4	3.9	3.5	3.4	17	3.2	3.8	3.0	4.3	5.4	3.6	3.5	3.0
2	3.0	5.7	3.1	6.4	3.3	3.8	3.6	3.4	18	3.4	3.6	3.0	4.1	4.5	3.6	3.6	3.0
3	3.0	4.6	3.1	5.3	3.3	3.8	3.5	3.4	19	3.3	3.5	3.0	4.0	4.2	3.6	3.6	3.0
4	3.0	4.0	3.1	4.6	3.3	3.8	3.5	3.4	20	3.2	3.4	3.0	3.8	4.3	3.6	3.6	3.0
5	3.0	3.7	3.1	4.2	3.3	3.8	3.5	3.3	21	3.2	3.3	3.0	3.7	4.1	3.6	3.6	3.0
6	3.0	3.5	3.1	4.0	3.4	3.8	3.6	3.3	22	3.1	3.3	3.0	3.6	4.0	3.7	3.6	3.0
7	3.1	3.4	3.1	3.9	3.3	3.7	3.5	3.3	23	3.1	3.2	3.1	3.6	4.1	3.6	3.5	3.0
8	3.0	3.3	3.1	3.8	3.4	3.7	3.5	3.2	24	3.1	3.2	3.1	3.5	4.2	3.6	3.5	3.0
9	3.0	3.3	3.1	5.6	4.5	3.7	3.5	3.2	25	5.7	3.2	3.1	3.5	4.5	3.6	3.5	2.9
10	3.0	3.2	3.1	5.4	4.0	3.6	3.6	3.2	26	5.9	3.2	3.1	3.4	4.6	3.5	3.5	2.9
11	3.1	3.2	3.1	6.5	3.8	3.6	3.6	3.2	27	4.2	3.2	3.2	3.4	4.9	3.5	3.4	2.9
12	3.2	3.2	3.1	5.3	3.7	3.7	3.6	3.2	28	3.7	3.1	3.2	3.4	4.5	3.5	3.4	2.9
13	4.4	3.2	3.1	4.7	3.6	3.7	3.5	3.1	29	3.5	3.1	3.5		4.3	3.5	3.4	2.9
14	3.9	3.2	3.1	4.4	3.8	3.6	3.5	3.1	30	3.6	3.1	4.1		4.1	3.5	3.4	2.9
15	3.3	3.2	3.1	4.7	5.1	3.6	3.5	3.1	31		3.1	7.5		4.0		3.4	
16	3.3	3.5	3.1	4.6	4.5	3.6	3.5	3.0									

Crest Stages:	Date	12-1-60
	Time	1300
	Stage	12.1

E - Estimated NR - No Record

TABLE 235

DAILY MEAN GAGE HEIGHT
MILL CREEK NEAR LOS MOLINOS

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar.	Apr	May	June
1	1.3	5.7	1.5	4.0	1.7	2.3	2.1	2.3	17	1.5	2.2	1.5	2.5	3.4	2.4	2.3	2.5
2	1.3	3.9	1.5	4.7	1.7	2.4	2.1	2.6	18	1.8	2.4	1.5	2.3	2.5	2.4	2.5	2.4
3	1.3	2.6	1.5	3.7	1.7	2.8	2.1	2.4	19	1.6	2.1	1.5	2.2	2.3	2.2	2.7	2.3
4	1.3	2.1	1.5	2.9	1.6	2.9	2.1	2.5	20	1.5	1.9	1.5	2.1	2.3	2.1	2.7	2.2
5	1.3	1.8	1.5	2.5	1.7	2.7	2.0	2.4	21	1.5	1.8	1.5	2.0	2.2	2.1	2.5	2.2
6	1.3	1.7	1.5	2.3	1.7	2.5	2.1	2.4	22	1.5	1.7	1.5	2.0	2.2	2.1	2.6	2.2
7	1.4	1.6	1.5	2.1	1.6	2.4	2.1	2.5	23	1.4	1.7	1.5	1.9	2.6	2.0	2.5	2.1
8	1.3	1.6	1.5	2.1	1.8	2.3	2.0	2.5	24	1.5	1.6	1.5	1.8	2.6	2.0	2.4	2.1
9	1.3	1.6	1.6	4.2	2.7	2.3	2.1	2.4	25	3.9	1.6	1.5	1.8	2.6	2.0	2.5	2.0
10	1.3	1.6	1.6	4.2	2.0	2.2	2.2	2.4	26	4.0	1.6	1.5	1.7	2.5	2.0	2.5	2.0
11	1.4	1.5	1.6	4.7	1.9	2.2	2.2	2.5	27	2.2	1.6	1.6	1.7	2.6	2.0	2.3	2.0
12	1.6	1.5	1.5	3.6	1.9	2.4	2.1	2.3	28	1.7	1.6	1.6	1.7	2.4	2.0	2.2	1.9
13	2.2	1.5	1.5	3.0	1.8	2.2	2.1	2.4	29	1.6	1.5	1.8		2.3	2.0	2.2	1.8
14	2.0	1.5	1.5	2.7	1.9	2.1	2.1	2.5	30	1.6	1.5	2.3		2.2	2.1	2.3	1.8
15	1.6	1.5	1.5	3.0	3.3	2.1	2.2	2.5	31		1.5	6.0		2.2		2.2	
16	1.5	1.7	1.5	2.8	2.6	2.2	2.3	2.5									

Crest Stages:	Date	1-31-61
	Time	1200
	Stage	8.6

E - Estimated NR - No Record

TABLE 236

DAILY MEAN GAGE HEIGHT
MILL CREEK NEAR MOUTH

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	NR	NR	4.6	7.0	4.8	5.4	4.8	5.0	17	4.5	5.4	4.6	5.7	6.4	5.1	5.0	5.1
2	NR	NR	4.6	7.5	4.8	5.6	4.8	5.2	18	5.0	5.6	4.6	5.5	5.7	5.1	5.1	5.1
3	NR	NR	4.6	6.8	4.8	5.8	4.7	5.2	19	4.8	5.3	4.6	5.4	5.5	4.9	5.4	4.9
4	NR	NR	4.5	6.1	4.8	5.9	4.7	5.2	20	4.5	5.1	4.6	5.3	5.5	4.8	5.4	4.9
5	NR	NR	4.5	5.7	4.8	5.8	4.7	5.1	21	4.5	4.9	4.6	5.2	5.4	4.7	5.3	4.8
6	NR	4.9	4.5	5.5	4.9	5.5	4.7	5.1	22	4.4	4.9	4.6	5.2	5.3	4.9	5.3	4.7
7	NR	4.8	4.6	5.4	4.8	5.4	4.7	5.1	23	4.4	4.8	4.6	5.1	5.7	4.7	5.3	4.7
8	NR	4.7	4.6	5.3	4.8	5.3	4.7	5.2	24	4.5	4.8	4.6	5.0	5.7	4.7	5.2	4.6
9	NR	4.7	4.7	7.0	5.8	5.2	4.7	5.0	25	NR	4.8	4.6	5.0	5.7	4.6	5.2	4.6
10	NR	4.7	4.7	7.1	5.2	5.1	4.9	5.0	26	NR	4.7	4.7	4.9	5.6	4.7	5.3	4.5
11	NR	4.6	4.7	7.4	5.1	4.9	4.9	5.1	27	NR	4.7	4.7	4.9	5.7	4.7	5.0	4.5
12	4.6	4.6	4.7	6.6	5.1	5.1	4.9	5.0	28	NR	4.7	4.7	4.8	5.6	4.7	5.0	4.5
13	5.2	4.6	4.6	6.1	5.0	5.0	4.8	5.0	29	NR	4.6	4.9		5.4	4.7	5.0	4.4
14	5.1	4.6	4.6	5.8	5.1	4.9	4.8	5.1	30	NR	4.6	5.4		5.4	4.8	5.0	4.3
15	4.6	4.6	4.6	6.0	6.2	4.8	4.9	5.1	31		4.6	8.6		5.4		5.0	
16	4.5	4.9	4.6	5.9	5.7	4.9	5.0	5.1									

Crest Stages:	Date	11-13-60	1-31-61	2-2-61	2-9-61	2-11-61	3-9-61	3-15-61	3-17-61
	Time	1430	1300	0930	1700	0830	0300	1000	0415
	Stage	5.9	10.9	8.4	8.6	8.8	6.6	6.8	7.5

E - Estimated NR - No Record

TABLE 237

DAILY MEAN GAGE HEIGHT
THOMES CREEK AT PASKENTA

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	3.2	5.8	3.8	5.8	4.3	5.2	4.9	4.4	17	3.4	6.6	3.6	5.1	5.0	4.7	4.6	4.2
2	3.2	4.8	3.8	6.6	4.3	5.5	4.8	4.4	18	3.9	5.8	3.6	4.9	4.8	4.7	4.6	4.1
3	3.2	4.3	3.8	5.9	4.3	5.7	4.7	4.4	19	3.8	5.1	3.6	4.8	4.9	4.6	4.6	4.1
4	3.2	4.1	3.7	5.3	4.3	5.6	4.7	4.5	20	3.6	4.7	3.6	4.7	5.2	4.5	4.7	4.1
5	3.3	4.0	3.7	5.0	4.3	5.4	4.6	4.5	21	3.5	4.5	3.6	4.7	5.0	4.5	4.6	4.0
6	3.3	3.9	3.7	4.8	4.3	5.2	4.6	4.4	22	3.6	4.4	3.6	4.7	5.2	4.5	4.6	4.0
7	3.3	3.9	3.7	4.7	4.2	5.1	4.6	4.4	23	3.5	4.3	3.6	4.6	5.5	4.5	4.5	4.0
8	3.3	3.8	3.7	4.6	4.2	4.9	4.5	4.3	24	4.5	4.2	3.7	4.5	5.4	4.5	4.5	4.0
9	3.3	3.8	3.7	6.2	4.3	4.9	4.6	4.3	25	4.9	4.1	3.7	4.5	5.2	4.5	4.5	3.9
10	3.3	3.8	3.8	5.8	4.3	4.8	4.6	4.3	26	4.4	4.1	4.7	4.4	5.1	4.5	4.5	3.9
11	3.3	3.8	3.7	5.9	4.4	4.8	4.7	4.3	27	4.1	4.0	4.4	4.4	5.0	4.6	4.4	3.9
12	3.3	3.8	3.7	5.5	4.4	4.8	4.6	4.2	28	3.9	4.0	4.1	4.4	4.9	4.7	4.4	3.8
13	3.6	3.8	3.7	5.2	4.4	4.7	4.6	4.2	29	3.9	3.9	4.8		4.9	4.9	4.4	3.8
14	3.6	3.9	3.7	5.3	4.6	4.7	4.6	4.2	30	3.9	3.9	5.1		5.0	4.9	4.4	3.8
15	3.5	3.9	3.6	5.4	5.1	4.6	4.6	4.2	31		3.8	7.1		5.1		4.4	
16	3.4	4.2	3.6	5.2	4.9	4.6	4.6	4.2									

Crest Stages:	Date	1-31-61
	Time	1200
	Stage	8.4

E - Estimated NR - No Record

TABLE 238

DAILY MEAN GAGE HEIGHT
DEER CREEK NEAR VINA

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	2.4	6.3	2.6	4.8	3.0	3.6	3.3	3.0	17	2.6	3.3	2.6	3.8	4.6	3.3	3.2	2.7
2	2.4	4.9	2.6	5.1	3.0	3.7	3.3	3.0	18	3.1	3.5	2.6	3.7	4.0	3.4	3.1	2.6
3	2.4	3.9	2.6	4.7	3.0	3.8	3.2	3.0	19	3.0	3.3	2.6	3.5	3.8	3.3	3.2	2.6
4	2.5	3.4	2.6	4.1	3.0	3.9	3.2	2.9	20	2.7	3.1	2.6	3.4	3.8	3.3	3.2	2.6
5	2.4	3.2	2.6	3.7	3.0	3.8	3.2	2.9	21	2.7	3.0	2.6	3.4	3.7	3.3	3.1	2.6
6	2.5	3.0	2.6	3.6	3.0	3.7	3.2	2.9	22	2.6	2.9	2.6	3.3	3.7	3.4	3.1	2.6
7	2.5	2.9	2.6	3.5	2.9	3.6	3.2	2.8	23	2.6	2.9	2.6	3.2	4.0	3.3	3.1	2.6
8	2.5	2.8	2.6	3.4	3.0	3.5	3.2	2.8	24	2.7	2.8	2.6	3.2	4.1	3.3	3.0	2.6
9	2.5	2.8	2.7	4.9	3.9	3.5	3.1	2.8	25	4.3	2.8	2.6	3.1	4.0	3.3	3.0	2.6
10	2.5	2.7	2.8	5.1	3.4	3.4	3.3	2.8	26	4.7	2.8	2.7	3.1	4.0	3.3	3.0	2.6
11	2.5	2.7	2.7	5.4	3.3	3.4	3.3	2.8	27	3.4	2.8	2.7	3.0	4.0	3.2	3.0	2.6
12	2.8	2.7	2.7	4.7	3.2	3.4	3.3	2.8	28	3.0	2.7	2.7	3.0	3.8	3.2	3.0	2.6
13	3.4	2.7	2.7	4.2	3.2	3.5	3.3	2.7	29	2.9	2.7	2.8		3.7	3.2	2.9	2.6
14	3.0	2.7	2.6	4.0	3.3	3.4	3.2	2.7	30	2.9	2.7	3.3		3.6	3.3	3.0	2.6
15	2.7	2.7	2.6	4.2	4.4	3.3	3.2	2.7	31		2.7	6.3		3.6		3.1	
16	2.6	2.9	2.6	4.0	4.0	3.3	3.2	2.7									

Crest Stages:	Date	12-1-60
	Time	1300
	Stage	8.4

E - Estimated NR - No Record

TABLE 239

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VINA BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	66.8	76.0	66.5	76.1	70.4	68.9	68.3	68.0	17	66.5	69.8	66.4	72.6	73.7	67.7	67.8	68.2
2	66.8	77.5	66.6	75.2	70.1	68.8	68.2	68.2	18	66.6	71.8	66.4	72.1	72.5	67.8	67.8	68.1
3	66.8	71.1	66.6	74.9	70.0	68.9	68.1	68.2	19	66.9	69.4	66.4	71.7	71.6	68.0	67.9	68.1
4	66.8	68.6	66.6	71.0	70.0	68.9	68.1	68.2	20	66.6	68.3	66.4	71.5	72.0	68.0	67.9	68.2
5	66.8	67.7	66.6	69.6	70.0	68.8	68.0	68.2	21	66.5	67.7	66.4	71.3	71.6	68.0	67.9	68.4
6	66.8	67.2	66.6	68.9	70.1	68.6	68.1	68.2	22	66.5	67.4	66.4	71.2	71.2	68.2	67.9	68.4
7	66.8	67.0	66.6	68.6	70.0	68.4	68.3	68.1	23	66.4	67.2	66.4	71.0	71.3	68.4	67.9	68.5
8	66.8	66.8	66.5	68.2	70.0	68.3	68.1	68.1	24	66.4	67.0	66.4	70.9	71.5	68.6	67.8	68.5
9	66.8	66.7	66.5	72.0	71.0	68.2	68.1	68.0	25	67.4	66.9	66.4	70.8	72.2	68.2	67.8	68.5
10	66.8	66.6	66.6	75.6	70.5	68.1	68.1	68.0	26	72.8	66.8	66.7	70.7	70.8	68.0	67.8	68.5
11	66.8	66.6	66.6	75.0	70.4	68.0	68.2	68.0	27	68.6	66.7	67.3	70.7	71.4	67.9	67.8	68.5
12	67.0	66.5	66.5	75.0	70.3	68.0	68.2	68.0	28	67.2	66.6	67.0	70.6	70.1	68.0	67.7	68.5
13	67.7	66.5	66.5	73.1	70.2	68.0	68.1	67.9	29	66.8	66.6	67.9		69.4	68.0	67.7	68.5
14	68.5	66.4	66.5	72.9	70.2	67.9	67.9	67.9	30	66.8	66.5	72.3		69.1	68.2	67.7	68.5
15	67.0	66.5	66.5	73.2	72.7	67.8	67.9	68.0	31		66.5	75.6		69.0		67.8	
16	66.7	67.2	66.4	73.8	72.3	67.8	67.9	68.1									

Crest Stages:	Date	11-26-60	12-2-60	12-18-60	2-1-61	2-2-61	2-10-61	2-11-61	3-17-61
	Time	0700	0015	0600	0200	2030	0330	2030	1700
	Stage	74.5	84.1	72.9	79.8	78.0	78.3	78.0	74.5

E - Estimated NR - No Record

TABLE 240

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT HAMILTON CITY

In feet

Oate	1960		1961						Oate	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	27.7	33.6	27.8	37.2	31.4	30.0	28.6	28.4	17	27.8	30.0	27.7	33.1	33.7	28.2	28.2	28.6
2	27.7	39.7	27.8	34.9	31.0	29.9	28.6	28.6	18	27.8	32.4	27.8	32.6	33.2	28.2	28.2	28.5
3	27.7	32.3	27.9	35.7	31.0	30.0	28.5	28.7	19	28.1	30.7	27.7	32.3	32.3	28.3	28.3	28.5
4	27.7	30.0	27.9	32.0	30.9	29.9	28.4	28.7	20	27.9	29.7	27.7	32.1	32.4	28.4	28.3	28.5
5	27.8	29.1	27.8	30.7	30.9	29.8	28.4	28.7	21	27.8	29.1	27.7	31.9	32.3	28.4	28.4	28.7
6	27.8	28.6	27.8	30.0	31.0	29.6	28.4	28.7	22	27.8	28.7	27.7	31.8	31.9	28.5	28.3	28.7
7	27.8	28.3	27.8	29.7	31.0	29.4	28.6	28.6	23	27.7	28.5	27.7	31.8	31.9	28.7	28.3	28.8
8	27.8	28.1	27.8	29.4	30.9	29.2	28.6	28.6	24	27.7	28.3	27.7	31.7	32.0	29.0	28.2	28.9
9	27.8	29.1	27.8	31.3	31.6	29.0	28.5	28.5	25	27.9	28.2	27.7	31.6	32.7	28.6	28.2	28.9
10	27.8	28.0	27.8	36.2	31.4	28.9	28.5	28.5	26	32.9	28.1	27.9	31.6	31.7	28.4	28.2	28.9
11	27.8	27.9	27.9	34.5	31.2	28.8	28.6	28.4	27	30.2	28.0	28.6	31.5	32.0	28.3	28.2	28.9
12	28.0	27.8	27.8	35.7	31.2	28.7	28.7	28.4	28	28.6	27.9	28.3	31.5	31.1	28.3	28.2	28.9
13	28.4	27.8	27.8	33.6	31.1	28.6	28.6	28.4	29	28.1	27.9	28.6		30.5	28.4	28.2	28.9
14	29.5	27.8	27.8	33.2	31.1	28.4	28.4	28.3	30	28.0	27.8	32.6		30.2	28.5	28.2	28.8
15	28.4	27.8	27.8	33.3	32.7	28.4	28.3	28.4	31		27.8	34.8		30.1		28.3	
16	28.0	28.2	27.8	34.1	33.0	28.3	28.3	28.5									

Crest Stages:	Oate	11-26-60	12-2-60	12-18-60	2-1-61	2-2-61	2-10-61	2-12-61	3-17-61
	Time	1100	0700	1000	0500	2200	0730	0100	2100
	Stage	34.4	43.3 E	33.0	39.4	38.0	37.7	37.3	34.6

TABLE 241

DAILY MEAN GAGE HEIGHT
STONY CREEK NEAR HAMILTON CITY

In feet

Oate	1960		1961						Oate	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1		6.0 a	4.3	8.1	5.5	6.5	4.7	NF	17		5.8 a	NF	6.8	6.5	4.8	NF	NF
2		6.6	4.2	8.8	5.4	6.5	4.8	3.8 a	18		6.7	NF	6.7	6.5	4.6	NF	NF
3		5.4	4.1	8.2	5.4	6.5	4.6	4.1 a	19		6.0	NF	6.5	6.4	4.4	NF	NF
4		4.9	4.1	7.2	5.3	6.5	4.4	4.4	20		5.6	NF	6.4	6.5	4.2	NF	NF
5		4.6	4.0	6.7	5.3	6.3	4.3	4.4	21		5.3	NF	6.2	6.5	4.2	4.2	NF
6	N	4.4	4.0	6.4	5.3	6.1	4.3	4.2	22	N	5.1	NF	6.0	6.4	4.2	4.3	NF
7	O	4.3	4.0	6.3	5.2	5.8	4.5	4.0	23	O	5.0	NF	5.9	6.5	4.4	4.0	NF
8		4.1	3.9	6.1	5.2	5.6	4.6	3.8 a	24		4.9	NF	5.8	6.5	4.3	3.9	NF
9	F	4.0	3.8	7.0	5.3	5.5	4.5	3.8 a	25	F	4.8	NF	5.7	6.4	4.3	4.2	NF
10	L O W	3.9	3.8	7.5	5.4	5.3	4.4	NF	26	L O W	4.7	7.4 a	5.7	6.3	4.1	4.3	NF
11		3.8 a	NF	7.1	5.3	5.1	4.4	NF	27		4.6	6.4	5.6	6.4	4.2	4.0 a	NF
12		NF	NF	7.2	5.4	5.0	4.5	NF	28		4.5	5.5	5.6	6.4	4.5	NF	NF
13		NF	NF	6.7	5.4	4.9	4.4	NF	29		4.4	6.0		6.4	4.6	3.8 a	NF
14		NF	NF	6.6	5.4	4.9	4.3	NF	30		4.4	8.0		6.4	4.6	4.0 a	NF
15		NF	NF	6.7	5.8	4.8	4.1	NF	31		4.3	8.2		6.4		3.8 a	
16		NF	NF	6.9	6.0	4.7	3.8 a	NF									

Crest Stages:	Oate	2-2-61
	Time	1700
	Stage	10.6

E - Estimated NR - No Record

NF - No Flow

a - Mean Gage Height for period of flow.

TABLE 242

DAILY GAGE HEIGHT*
STONY CREEK AT ST. JOHN

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1		2.5		NF					17								
2		1.3		NF					18								
3		1.0		NF					19								
4		NF		NF					20								
5		NF		NF					21								
6	N	NF	N	NF	N	N	N	N	22	N	N	N	N	N	N	N	N
	O		O		O	O	O	O		O	O	O	O	O	O	O	O
7		NF		NF					23								
8		NF		NF					24								
	F		F		F	F	F	F		F	F	F	F	F	F	F	F
9	L	NF	L	3.0	L	L	L	L	25	L	L	L	L	L	L	L	L
	O		O		O	O	O	O		O	O	O	O	O	O	O	O
10	W	NF	W	2.8	W	W	W	W	26	W	W	W	W	W	W	W	W
11		NF		NF					27								
12		NF		NF					28								
13		NF		NF					29								
14		NF		NF					30								
15		NF		NF					31								
16		NF		NF													

Crest Stages:	Date	
	Time	
	Stage	

E - Estimated NR - No Record
NF - No Flow
* Individual daily staff gage readings.

TABLE 243

DAILY MEAN GAGE HEIGHT
BIG CHICO CREEK NEAR CHICO

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	2.2	4.6	2.3	4.4	2.5	3.1	2.6	2.4	17	2.3	3.1	2.3	3.4	4.0	2.5	2.4	2.2
2	2.2	4.3	2.3	4.1	2.5	3.0	2.6	2.4	18	2.6	3.0	2.3	3.2	3.7	2.5	2.4	2.2
3	2.2	3.6	2.3	3.8	2.5	3.0	2.5	2.3	19	2.5	2.9	2.3	3.1	3.5	2.5	2.4	2.2
4	2.2	3.2	2.3	3.5	2.5	2.9	2.5	2.3	20	2.4	2.8	2.3	3.0	3.6	2.5	2.4	2.2
5	2.2	2.9	2.3	3.2	2.5	2.9	2.5	2.3	21	2.3	2.7	2.2	2.9	3.4	2.5	2.4	2.2
6	2.2	2.7	2.3	3.1	2.6	2.8	2.5	2.3	22	2.3	2.6	2.2	2.8	3.4	2.7	2.4	2.2
7	2.2	2.6	2.3	3.0	2.5	2.8	2.5	2.3	23	2.3	2.5	2.3	2.8	3.5	2.7	2.4	2.2
8	2.2	2.5	2.3	2.9	2.5	2.7	2.5	2.3	24	2.3	2.5	2.3	2.7	3.6	2.6	2.3	2.2
9	2.2	2.5	2.3	4.4	2.9	2.7	2.5	2.3	25	3.0	2.5	2.2	2.7	3.7	2.6	2.3	2.2
10	2.2	2.4	2.3	4.5	2.8	2.6	2.5	2.3	26	3.9	2.4	2.3	2.6	3.7	2.6	2.3	2.2
11	2.3	2.4	2.3	4.4	2.8	2.6	2.5	2.2	27	3.2	2.4	2.4	2.6	3.8	2.6	2.3	2.2
12	2.4	2.4	2.3	4.3	2.8	2.6	2.6	2.2	28	2.8	2.4	2.3	2.6	3.7	2.6	2.3	2.2
13	2.9	2.4	2.3	3.8	2.7	2.6	2.5	2.2	29	2.6	2.4	2.5		3.5	2.6	2.3	2.2
14	2.6	2.4	2.3	3.6	2.7	2.6	2.5	2.2	30	2.6	2.4	3.2		3.4	2.6	2.3	2.2
15	2.4	2.4	2.3	3.6	3.7	2.5	2.5	2.2	31		2.3	5.9		3.3		2.4	
16	2.3	2.6	2.3	3.5	3.7	2.5	2.4	2.2									

Crest Stages.	Date	1-31-61
	Time	1400
	Stage	7.2

E - Estimated NR - No Record

TABLE 244

DAILY MEAN GAGE HEIGHT*
SACRAMENTO RIVER AT ORD FERRY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	46.1	50.5	46.2	58.4	50.7	49.0	47.1	46.7	17	46.4	48.6	46.2	53.1	53.3	46.7 E	46.7	47.0
2	46.1	60.8	46.3	54.7	50.4	49.0	47.1	47.0	18	46.3	51.9	46.1	52.5	53.6	46.6 E	46.7	47.0
3	46.1	52.8	46.3	57.0	50.2	49.0	47.1	47.2	19	46.6	50.3	46.2	52.1	52.2	46.8	46.7	46.9
4	46.1	49.7	46.3	52.6	50.2	48.8	46.9	47.2	20	46.4	49.0	46.1	51.8	52.0	46.8	46.8	47.0
5	46.2	48.3	46.3	50.7	50.1	48.7	46.9	47.2	21	46.3	48.1	46.1	51.6	52.1	46.8	46.8	47.1
6	46.2	47.6	46.3	49.7	50.2	48.6	46.9	47.2	22	46.2	47.6	46.1	51.4	51.6	47.0	46.8	47.2
7	46.2	47.2	46.3	49.2	50.2	48.3	47.1	47.1	23	46.1	47.3	46.2	51.2	51.5	47.1	46.7	47.3
8	46.2	46.9	46.2	48.8	50.1	48.1	47.1	47.0	24	46.1	47.0	46.2	51.1	51.6	47.5	46.7	47.4
9	46.2	46.7	46.3	50.2	50.7	47.9	46.9	47.0	25	46.2	46.9	46.2	51.0	52.4	47.3	46.6	47.4
10	46.2	46.6	46.3	56.6	50.9	47.7	47.0	46.9	26	51.9	46.7	46.3	50.9	51.6	46.9	46.6	47.4
11	46.2	46.5	46.3	54.2	50.6	47.5	47.1	46.9	27	50.1	46.6	47.4	50.8	51.5	46.7	46.6	47.4
12	46.4	46.4	46.3	56.2	50.5	47.3	47.2	46.9	28	47.6	46.5	47.1	50.8	50.9	46.7	46.6	47.4
13	46.7	46.3	46.2	53.9	50.4	47.2	47.1	46.8	29	46.9	46.4	47.1		49.9	46.8	46.6	47.4
14	48.3	46.3	46.2	53.0	50.3	47.0	46.9	46.7	30	46.6	46.4	52.3		49.5	46.9	46.5	47.3
15	47.4	46.3	46.2	53.1	51.6	46.9	46.8	46.8	31		46.3	54.4		49.2		46.6	
16	46.6	46.6	46.2	54.1	53.0	46.8	46.7	46.9									

Crest Stages:	Date	11-26-60	12-2-60	2-1-61	2-3-61	2-10-61	2-12-61	2-16-61	3-18-61
	Time	1500	1100	0830	0300	1230	0530	1030	0100
	Stage	53.9	62.4	59.7	58.6	57.6	57.3	54.4	54.5

E-Estimated NR-No Record

* Datum changed on October 1, 1960.

TABLE 245

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT BUTTE CITY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	70.4	73.0	70.7	85.1	75.5	73.7	71.4	71.0	17	70.8	72.8	70.6	78.7	78.0	71.1	71.0	71.3
2	70.5	86.5	70.7	80.8	75.2	73.5	71.4	71.2	18	70.8	76.3	70.6	77.7	79.0	71.0	71.0	71.3
3	70.5	74.9	70.8	84.2	74.9	73.5	71.4	71.5	19	70.9	75.0	70.6	77.2	77.3	71.0	71.0	71.3
4	70.5	75.2	70.8	79.0	74.9	73.4	71.2	71.5	20	70.9	73.6	70.6	76.8	76.8	71.2	71.1	71.2
5	70.5	73.2	70.7	76.0	74.8	73.3	71.2	71.5	21	70.7	72.7	70.5	76.6	77.1	71.1	71.1	71.3
6	70.6	72.3	70.7	74.7	74.9	73.1	71.2	71.5	22	70.6	72.1	70.5	76.3	76.5	71.2	71.1	71.5
7	70.6	71.8	70.7	74.0	74.9	72.9	71.3	71.4	23	70.6	71.8	70.6	76.2	76.3	71.4	71.1	71.5
8	70.6	71.5	70.7	73.6	74.8	72.7	71.4	71.4	24	70.5	71.5	70.6	76.0	76.4	71.7	71.0	71.6
9	70.6	71.3	70.7	74.2	75.2	72.4	71.3	71.3	25	70.6	71.3	70.6	75.9	77.0	71.7	71.0	71.6
10	70.6	71.1	70.7	81.8	75.7	72.2	71.3	71.2	26	74.9	71.3	70.6	75.8	76.7	71.4	70.9	71.6
11	70.7	71.0	70.7	80.0	75.3	72.0	71.4	71.2	27	75.5	71.1	71.6	75.7	76.2	71.1	70.9	71.6
12	70.8	70.9	70.7	82.5	75.2	71.8	71.5	71.2	28	72.5	70.9	71.6	75.6	75.8	71.0	70.9	71.6
13	71.0	70.8	70.7	80.0	75.1	71.6	71.5	71.1	29	71.5	70.8	71.4		74.7	71.1	70.9	71.6
14	72.4	70.7	70.7	78.4	75.0	71.5	71.3	71.1	30	71.2	70.8	76.1		74.2	71.2	70.9	71.5
15	72.0	70.7	70.6	78.4	75.9	71.3	71.2	71.1	31		70.7	78.6		73.9		70.9	
16	71.1	71.0	70.6	79.4	77.8	71.2	71.1	71.2									

Crest Stages:	Date	12-2-60
	Time	1800
	Stage	88.3

E-Estimated NR-No Record

TABLE 246

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MOULTON WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec	Jan	Feb.	Mar	Apr	May	June
1									17								
2		76.8 a							18								
3		76.8 a							19								
4									20								
5									21								
6									22								
7									23								
8									24								
9									25								
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:	Date	12-3-60
	Time	0001
	Stage	77.1

E - Estimated NR - No Record
a Mean gage height for period of flow.

TABLE 247

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	56.9	58.9	57.3	73.6	63.3	61.1	58.0	57.6	17	57.4	58.7	57.1	68.9	66.8	57.8	57.6	57.8
2	56.9	73.6	57.3	71.9	63.0	60.9	58.0	57.8	18	57.2	62.9	57.1	67.3	68.8	57.7	57.6	57.8
3	56.9	73.0	57.4	73.7	62.5	60.8	58.0	58.1	19	57.4	63.4	57.1	66.2	67.0	57.7	57.6	57.8
4	56.9	64.5	57.3	70.3	62.4	60.8	57.9	58.2	20	57.5	61.1	57.0	65.5	65.5	57.8	57.6	57.7
5	57.0	60.6	57.3	65.1	62.3	60.6	57.8	58.2	21	57.3	59.8	57.0	65.0	66.0	57.7	57.7	57.8
6	57.0	59.3	57.3	62.4	62.3	60.4	57.8	58.1	22	57.2	59.1	57.0	64.6	65.2	57.9	57.7	58.0
7	57.1	58.6	57.3	61.3	62.4	60.2	57.9	58.1	23	57.1	58.7	57.0	64.3	64.6	58.1	57.6	58.0
8	57.1	58.2	57.2	60.7	62.3	59.9	58.0	58.0	24	57.0	58.3	57.1	64.0	64.8	58.4	57.6	58.2
9	57.1	58.0	57.2	60.8	62.6	59.6	57.9	57.9	25	57.0	58.1	57.1	63.8	65.2	58.5	57.6	58.3
10	57.1	57.8	57.2	69.5	63.6	59.3	57.8	57.8	26	61.0	57.9	57.1	63.6	65.7	58.0	57.5	58.3
11	57.2	57.6	57.3	70.8	63.0	59.0	58.0	57.8	27	64.0	57.7	58.0	63.5	64.3	57.7	57.5	58.3
12	57.3	57.5	57.3	72.1	62.8	58.8	58.1	57.7	28	59.6	57.6	58.2	63.4	64.3	57.6	57.5	58.3
13	57.5	57.4	57.2	70.9	62.7	58.6	58.2	57.7	29	58.2	57.5	57.9		62.6	57.7	57.4	58.2
14	58.8	57.3	57.2	68.4	62.6	58.4	58.0	57.6	30	57.7	57.4	62.0		61.8	57.8	57.4	58.2
15	58.9	57.3	57.2	67.9	63.2	58.2	57.8	57.6	31		57.4	66.8		61.4		57.5	
16	57.8	57.4	57.1	68.8	66.7	58.0	57.7	57.6									

Crest Stages	Date	11-27-60	12-3-60	12-18-60	2-1-61	2-3-61	2-10-61	2-12-61	3-18-61
	Time	0200	0015	2300	2100	1600	2345	1630	1130
	Stage	65.9	76.9	64.8	75.3	74.7	73.0	73.1	69.2

E - Estimated NR - No Record

TABLE 248

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec	Jan	Feb	Mar	Apr.	May	June
1				63.9 a					17				62.0 a				
2		63.9 a		63.5					18				61.0	61.8 a			
3		64.0		63.8					19								
4		61.9 a		62.9 a					20								
5				60.9					21								
6									22								
7									23								
8									24								
9									25								
10				63.0 a					26								
11				63.0					27								
12				63.2					28								
13				63.0					29								
14				61.9 a					30								
15									31								
16				61.9 a													

Crest Stages:						
	Date	12-3-60	2-1-61	2-3-61	2-11-61	2-12-61	2-17-61
	Time	0230	2230	1900	0230	1900	0300
	Stage	65.1	64.5	64.3	63.6	63.8	62.2

E-Estimated NR-No Record

a-Mean gage height for period of flow.

TABLE 249

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	40.9	42.8	41.8	61.1	51.8	NR	42.6	42.0	17	41.9	43.4	41.6	60.0	57.0	43.0	42.2	42.2
2	41.0	58.2	41.8	61.7	51.5	NR	42.8	42.2	18	41.6	48.8	41.6	58.3	59.4	42.8	42.1	42.4
3	41.0	62.2	41.9	61.9	50.8	48.0	42.9	42.7	19	41.8	52.4	41.5	56.8	58.1	42.7	42.1	42.4
4	41.0	56.6	41.9	61.1	50.4	47.8	42.8	43.0	20	42.0	49.4	41.5	55.7	55.9	42.8	42.1	42.3
5	41.0	50.1	42.0	56.6	50.3	47.6	42.7	43.1	21	41.7	46.8	41.4	54.9	56.1	42.7	42.2	42.3
6	41.1	46.6	41.8	52.5	50.2	47.4	42.5	43.1	22	41.5	45.2	41.4	54.0	55.3	42.8	42.2	42.6
7	41.2	44.8	41.8	50.1	50.4	46.9	42.5	43.1	23	41.3	44.3	41.5	53.5	54.3	43.1	42.2	42.7
8	41.3	43.9	41.8	48.8	50.3	46.4	42.8	42.9	24	41.1	43.7	41.5	53.1	54.1	43.4	42.2	42.9
9	41.3	43.4	41.8	48.9	50.3	45.8	42.7	42.8	25	41.1	43.2	41.5	52.8	54.5	43.9	42.1	43.1
10	41.3	42.9	41.8	55.8	51.9	45.4	42.5	42.6	26	45.0	42.9	41.6	52.5	54.8	43.2	42.0	43.2
11	41.3	42.6	41.9	61.2	51.6	45.0	42.5	42.5	27	53.0	42.7	42.5	52.2	54.0	42.7	41.9	43.2
12	41.5	42.4	41.9	61.4	51.2	44.6	42.7	42.4	28	47.7	42.3	43.6	52.0	53.9	42.5	41.9	43.2
13	41.8	42.2	41.8	61.3	51.0	44.2	42.9	42.3	29	44.0	42.2	43.1		51.9	42.4	41.9	43.1
14	43.4	42.0	41.8	59.7	50.8	43.9	42.8	42.2	30	42.8	42.0	46.8		NR	42.4	41.8	43.0
15	44.9	41.9	41.7	58.6	51.0	43.6	42.5	42.0	31		41.9	55.0		NR		41.8	
16	42.8	41.9	41.7	59.1	55.7	43.3	42.4	42.1									

Crest Stages:		
	Date	12-3-60
	Time	0400
	Stage	63.2

E-Estimated NR-No Record

TABLE 250

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	36.5	39.5	37.8	58.2	49.0	45.4	38.3	38.5	17	38.3	39.2	37.8	57.2	54.2	39.1	38.7	38.2
2	36.6	54.6	37.8	58.8	48.6	45.0	38.9	39.0	18	37.8	44.6	37.8	55.6	56.6	39.2	38.6	38.4
3	36.6	59.3	38.0	59.1	47.8	44.8	38.9	39.6	19	37.8	49.7	37.7	54.2	55.6	39.1	38.7	38.4
4	36.6	54.6	37.9	58.2	47.4	44.6	38.8	40.0	20	37.8	46.4	37.6	53.1	53.4	38.6	38.7	38.4
5	36.6	47.8	37.9	53.9	47.2	44.4	38.6	40.0	21	37.9	43.8	37.5	52.3	53.4	38.6	38.7	38.4
6	36.8	44.5	37.8	50.3	47.2	44.1	39.6	39.9	22	37.6	41.9	37.4	51.6	52.8	38.7	38.8	38.6
7	36.9	42.1	37.8	47.5	47.4	43.6	38.6	39.8	23	37.5	40.8	37.4	50.9	51.8	39.0	38.8	38.9
8	36.9	40.9	37.8	46.0	47.2	43.2	38.7	39.6	24	37.3	40.1	37.4	50.5	51.6	39.3	38.9	39.1
9	37.0	40.1	37.8	45.4	47.2	42.2	38.8	39.3	25	37.1	39.5	37.4	50.2	52.0	40.1	38.9	39.3
10	37.0	39.5	38.1	53.6	49.2	42.0	38.6	39.1	26	39.7	39.0	37.7	49.8	53.3	39.4	38.9	39.4
11	37.0	39.0	38.2	58.4	48.8	41.4	38.7	39.0	27	50.0	38.7	38.9	49.5	51.4	38.7	38.7	39.4
12	37.2	38.7	38.3	58.5	48.3	41.0	39.1	38.8	28	45.0	38.5	39.9	49.2	51.6	38.4	38.4	39.4
13	37.6	38.4	38.1	58.4	48.0	40.6	39.3	38.6	29	40.9	38.2	39.4		49.0	38.2	38.4	39.4
14	39.2	38.1	38.0	56.9	47.8	40.1	39.3	38.4	30	39.4	38.0	42.4		47.0	38.4	38.3	39.3
15	41.6	37.9	38.0	55.9	47.9	39.8	38.9	38.2	31		37.8	51.9		46.0		38.4	
16	39.3	37.8	37.9	55.9	52.8	39.4	38.8	38.2									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record
* Average of twice daily staff gage readings from November 1, 1960 through April 23, 1961.
Individual daily staff gage readings from April 24, 1961 through June 30, 1961.

TABLE 251

DAILY MEAN GAGE HEIGHT
BUTTE CREEK NEAR CHICO

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb.	Mar	Apr	May	June
1	1.6	3.0	1.8	3.1	NR	NR	2.3	2.2	17	1.6	2.3	1.8	2.5	NR	NR	2.2	1.8
2	1.6	2.9	1.8	NR	NR	NR	2.3	2.1	18	1.9	2.3	1.7	NR	NR	2.2	2.2	1.8
3	1.6	2.4	1.8	NR	2.0A	NR	2.2	2.1	19	1.9	2.2	1.7	NR	NR	2.2	2.2	1.8
4	1.6	2.2	1.7	NR	NR	NR	2.2	2.0	20	1.7	2.1	1.7	NR	NR	2.2	2.2	1.8
5	1.6	2.0	1.7	NR	NR	NR	2.2	2.0	21	1.7	2.0	1.7	NR	NR	2.2	2.2	1.8
6	1.6	1.9	1.7	NR	NR	NR	2.2	2.0	22	1.6	2.0	1.7	NR	NR	2.4	2.2	1.8
7	1.6	1.9	1.7	NR	NR	NR	2.2	2.0	23	1.6	2.0 E	1.7	NR	NR	2.3	2.1	1.8
8	1.6	1.8	1.8	NR	NR	NR	2.2	2.0	24	1.7	1.9 E	1.7	NR	NR	2.2	2.1	1.7
9	1.5	1.8	1.8	NR	NR	NR	2.2	2.0	25	2.3	1.9 E	1.7	NR	NR	2.2	2.1	1.7
10	1.5	1.8	1.9	NR	NR	2.3 A	2.3	1.9	26	2.8	1.9 E	1.8	NR	NR	2.2	2.1	1.7
11	1.6	1.8	1.8	NR	NR	2.3 A	2.3	1.9	27	2.2	1.8 E	1.9	NR	NR	2.2	2.1	1.7
12	1.9	1.7	1.8	NR	NR	NR	2.3	1.9	28	1.9	1.8 E	1.8	NR	NR	2.2	2.1	1.7
13	2.1	1.7	1.8	NR	NR	NR	2.2	1.9	29	1.8	1.8	1.9		NR	2.3	2.0	1.7
14	1.9	1.7	1.8	NR	2.1	NR	2.2	1.9	30	1.8	1.8	2.4		NR	2.3	2.1	1.7
15	1.8	1.7	1.8	2.7 A	NR	NR	2.2	1.9	31		1.8	4.1		NR		2.1	
16	1.6	2.0	1.8	2.6	NR	NR	2.2	1.8									

Crest Stages:	Date	1-31-61
	Time	1100
	Stage	5.1

E - Estimated NR - No Record

A-Individual staff gage reading.

TABLE 252

DAILY MEAN GAGE HEIGHT
CHEROKEE CANAL NEAR RICHVALE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	2.5	4.5	3.2	6.0	3.4	3.5	3.5	4.0	17	NR	5.2	3.2	4.1	5.9	3.1	3.6	3.6
2	2.3	5.0	3.2	6.4	3.3	3.5	3.6	4.0	18	3.1	4.0	3.2	3.9	4.5	3.4	3.6	3.6
3	2.3	4.1	3.2	5.7	3.3	3.4	3.6	3.9	19	3.2	3.7	3.2	3.7	4.0	3.5	3.6	3.6
4	2.3	3.7	3.2	4.7	3.3	3.4	3.6	3.9	20	3.0	3.5	3.2	3.7	4.5	3.6	3.6	3.5
5	NR	3.6	3.2	4.3	3.3	3.4	3.6	3.8	21	3.0	3.5	3.2	3.6	4.0	3.6	3.6	3.3
6	NR	3.5	3.2	4.1	3.5	3.3	3.6	3.8	22	2.9	3.4	3.2	3.5	3.8	3.5	3.6	3.4
7	NR	3.4	3.2	3.9	3.3	3.2	3.5	3.8	23	2.9	3.4	3.2	3.5	4.5	3.6	3.6	3.4
8	NR	3.4	3.3	3.8	3.3	3.2	3.6	3.7	24	2.9	3.3	3.2	3.4	4.5	3.6	3.6	3.5
9	2.7	3.3	3.4	6.9	4.5	3.2	3.7	3.8	25	3.2	3.3	3.2	3.4	5.2	3.6	3.7	3.6
10	2.8	3.3	3.3	6.3	3.6	3.1	3.6	3.7	26	6.3	3.3	3.4	3.4	4.6	3.6	3.7	3.6
11	2.8	3.3	3.3	5.9	3.4	3.1	3.6	3.7	27	4.3	3.3	3.7	3.4	4.5	3.6	3.7	3.6
12	2.9	3.3	3.2	5.2	3.4	3.1	3.6	3.7	28	3.3	3.3	3.4	3.4	4.0	3.7	3.7	3.5
13	3.2	3.2	3.2	4.5	3.4	3.2	3.6	3.6	29	3.2	3.2	4.4		3.7	3.6	3.7	3.5
14	NR	3.2	3.2	4.2	3.4	3.1	3.6	3.6	30	3.4	3.2	5.9		3.5	3.5	3.8	3.5
15	NR	3.2	3.2	4.4	6.1	3.1	3.8	3.6	31		3.2	7.5		3.5		4.1	
16	NR	3.5	3.2	4.6	4.9	3.0	3.6	3.6									

Crest Stages:	Date	11-26-60	12-1-60	12-17-60	1-31-61	2-2-61	2-9-61	3-15-61	3-17-61
	Time	0830	1800	0300	1000	1400	1800	0900	0445
	Stage	6.9	7.1	6.2	9.1	7.9	9.6	7.4	7.2

E - Estimated NR - No Record

TABLE 253

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT OUTFALL GATES

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	40.6	40.3	38.2	48.0	46.3	45.8	41.3	42.4	17	38.8	41.7	38.7	50.0a	46.7	39.7	42.3	42.3
2	40.7	45.3a	38.2	51.7a	46.1	45.4	41.3	42.4	18	38.4	44.2	38.6	49.6a	47.1	39.8	42.2	42.3
3	40.7	50.2a	38.4	53.2a	45.9	45.1	41.5	42.4	19	38.4	45.4	38.4	49.1a	47.2	40.1	42.2	42.3
4	40.8	51.9a	38.4	54.3a	45.6	45.0	41.4	42.4	20	38.8	45.6	38.3	48.8a	47.3	40.9	42.2	42.3
5	40.9	51.3a	38.4	53.2a	45.4	44.8	41.3	42.3	21	38.5	44.2	38.1	48.5	47.3	41.0	42.3	42.2
6	41.0	47.8a	38.3	51.7a	45.3	44.5	41.4	42.1	22	38.4	42.6	38.0	48.2	47.3	40.9	42.2	42.2
7	41.1	45.5a	38.2	50.0a	45.2	44.2	41.6	42.2	23	38.2	41.6	38.0	48.0	47.2	41.1	42.3	42.4
8	41.2	44.2	38.4	46.8a	44.9	43.8	42.0	42.1	24	37.9	40.8	38.0	47.7	47.2	41.5	42.4	42.4
9	41.4	42.8	38.6	47.5	44.9	43.3	42.1	42.4	25	37.9	40.1	38.0	47.4	47.2	41.7	42.1	42.4
10	41.3	41.4	39.3	48.9a	45.0	42.7	42.2	42.5	26	40.4	39.7	38.2	47.1	47.3	41.2	42.2	42.3
11	41.2	40.4	39.5	50.0a	44.9	42.2	42.3	42.0	27	45.8	39.3	39.1	46.9	47.3	40.9	42.0	42.2
12	41.5	39.9	39.6	51.5a	44.8	41.8	42.2	42.3	28	45.4	38.9	40.5	46.6	47.3	41.0	42.1	42.1
13	41.8	39.4	39.3	52.8a	44.8	41.4	42.3	42.4	29	42.4	38.7	40.1		47.3	41.3	42.4	42.2
14	41.5	38.8	39.3	52.4a	44.9	40.7	42.2	42.2	30	40.8	38.4	42.0		47.1	41.4	42.0	42.2
15	41.8	39.3	39.0	51.6a	45.1	40.3	42.3	42.1	31		38.3	47.1		46.3		42.2	
16	40.1	40.7	38.8	50.4a	46.0	40.0	42.2	42.2									

Crest Stages:	Date	
	Time	
	Stage	

NR - No Record
a Average of twice daily staff gage readings.

TABLE 254

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MERIDIAN

In feet

Date	1960		1961						Date			1961					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	34.2	36.8	35.9 E	55.0	47.0	43.5	36.4	36.3	17	35.9	36.9	35.6	54.7	52.0	37.1	36.4	36.0
2	34.1	50.2	35.8 E	56.1	46.6	43.0	36.6	36.7	18	35.4	41.8	35.6	53.4	54.1	36.8	36.3	36.1
3	34.2	56.4	35.8 E	56.1	45.8	42.8	36.7	37.3	19	35.4	47.0	35.5	52.1	53.5	36.6	36.3	36.0
4	34.2	52.3	35.9 E	55.8	45.4	42.6	36.5	37.6	20	35.7	44.5	35.4	51.1	51.5	36.6	36.3	35.9
5	34.3	46.2	36.0 E	52.3	45.2	42.4	36.3	37.6	21	35.5	41.6	35.4	50.3	51.3	36.5	36.5	36.0
6	34.4	42.2	35.9 E	48.7	45.1	42.1	36.2	37.5	22	35.2	39.8	35.3	49.6	50.8	36.6	36.6	36.3
7	34.5	40.1	35.7	46.0	45.3	41.7	36.3	37.4	23	35.0	38.7	35.3	48.9	49.9	36.8	36.5	36.4
8	34.5	38.9	35.7	44.2	45.2	41.1	36.6	37.2	24	34.8	38.3 E	35.4	48.4	49.6	37.2	36.5	36.7
9	34.6	38.1	35.8	43.0	45.2	40.6	36.5	36.8	25	34.8	37.9 E	35.4	48.1	49.8	37.7	36.4	36.9
10	34.6	37.5	35.9	49.5	46.8	40.0	36.4	36.7	26	37.2	37.3 E	35.5	47.8	51.0	37.1	36.2	37.0
11	34.6	37.0	36.0	55.6	46.8	39.4	36.5	36.6	27	46.8	36.9 E	36.2	47.5	49.7	36.4	36.2	36.9
12	34.8	36.6	36.0	55.7	46.3	39.1	36.8	36.3	28	43.6	36.5 E	37.6	47.2	49.4	36.1	36.1	36.9
13	35.1	36.4	35.9	55.8	46.0	38.6	37.0	36.1	29	39.2	36.3 E	37.2		47.4	36.0	36.0	36.8
14	36.5	36.0	35.9	54.5	45.8	38.1	36.9	35.9	30	37.3	36.2 E	40.0		45.3	36.2	36.0	36.8
15	38.8	35.8	35.8	53.6	46.0	37.8	36.6	35.8	31		36.0 E	49.0		44.1		36.0	
16	37.2	35.8	35.7	53.9	50.1	37.4	36.5	35.8									

Crest Stages:	Date	11-27-60	12-3-60	12-19-60	2-2-61	2-3-61	2-11-61	2-12-61	3-18-61
	Time	1400	0700	1100	0400	2200	0700	2300	1800
	Stage	47.8	56.9	47.5	56.7	56.7	56.0	56.3	54.7

E - Estimated NR - No Record

TABLE 25:

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT RECLAMATION DISTRICT 70 PUMPING PLANT

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	29.4	32.2	30.9	48.6	43.0	39.4	30.0	30.5	17	31.8	31.1	30.0	49.8	47.8	31.7	30.8	30.0
2	29.3	38.4	30.9	50.7	42.7	38.7	30.5	31.0	18	30.8	35.8	30.8	49.2	48.7	31.3	30.6	30.3
3	29.4	50.8	30.9	50.1	42.0	38.2	30.6	31.5	19	30.6	42.2	30.7	48.2	48.6	30.9	30.6	30.1
4	29.4	46.4	31.0	50.7	42.2	38.0	30.6	32.2	20	31.0	41.7	30.6	47.6	47.8	30.6	30.6	30.0
5	29.4	44.4	31.0	48.7	41.2	38.0	30.4	32.3	21	30.7	38.8	30.5	46.8	47.1	30.7	30.8	30.0
6	29.5	39.4	31.0	46.1	41.0	37.7	30.2	32.2	22	30.7	35.6	30.5	45.9	47.2	30.5	31.0	30.2
7	29.5	36.5	31.0	42.8	41.0	37.5	30.1	32.0	23	30.7	34.0	30.5	45.2	46.3	30.7	30.9	30.5
8	30.5	34.9	31.0	40.8	41.0	37.0	30.5	31.8	24	30.8	33.5	30.6	44.7	45.5	31.0	30.9	30.6
9	29.8	33.7	31.0	39.3	40.9	36.8	30.7	31.5	25	30.8	32.9	30.6	44.2	45.6	31.8	30.9	31.0
10	29.8	33.1	31.0	40.7	41.9	36.5	30.5	31.2	26	31.2	32.4	30.6	43.8	47.0	31.5	30.7	31.2
11	29.8	32.4	31.1	50.2	42.9	35.0	30.5	31.0	27	41.7	32.1	30.8	43.5	46.5	30.6	30.5	31.2
12	29.8	31.6	31.2	50.1	42.3	34.3	30.9	30.8	28	41.6	31.7	32.0	43.2	45.6	30.9	30.5	31.2
13	30.0	31.7	31.1	50.4	41.9	33.9	31.2	30.4	29	36.3	31.4	32.7		44.4	29.9	30.5	31.1
14	30.8	31.4	31.1	49.8	41.6	33.4	31.4	30.3	30	33.4	31.2	35.4		41.9	30.0	30.3	31.1
15	34.2	31.0	31.0	49.0	41.6	32.6	31.2	30.0	31		31.0	42.6		40.3		30.2	
16	33.5	30.8	31.0	48.9	43.8	32.1	30.8	29.9									

Crest Stages:	Date								
	Time								
	Stage								

NR - No Record
* Individual daily staff gage readings.

TABLE 256

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT TISDALE WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June
1				47.1 e					17				47.2	46.1			
2		46.6 a		47.7					18				46.9	46.9			
3		47.8		47.7					19				46.4	46.9			
4		46.7 a		47.8					20				45.8 a	46.0			
5				46.6					21					45.7			
6				45.5 a					22					45.6 a			
7									23								
8									24								
9									25								
10				46.3 a					26					45.6 a			
11				47.5					27								
12				47.5					28								
13				47.6					29								
14				47.3					30								
15				46.9					31								
16				47.0	45.5 a												

Crest Stages:	Date	12-3-60	2-2-61	2-4-61	2-11-61	2-13-61	2-17-61	3-18-61	3-26-61
	Time	1100	0600	0200	1230	0100	0900	2300	1730
	Stage	47.9	47.8	47.9	47.6	47.7	47.3	47.2	45.6

E - Estimated NR - No Record

a-Mean gage height for period of flow.

TABLE 257

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER BELOW WILKINS SLOUGH

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.3	30.2	28.8	46.1	40.8	37.4	27.5	28.3	17	29.6	29.5	28.7	46.8	45.4	29.3	28.4	27.6
2	27.3	39.9	28.8	47.1	40.6	36.8	27.9	28.8	18	28.8	33.8	28.6	46.4	46.2	28.8	28.2	27.7
3	27.3	47.1	28.8	47.2	39.8	36.5	28.1	29.4	19	28.6	40.1	28.6	45.9	46.2	28.4	28.3	27.7
4	27.3	46.8	28.9	47.2	39.2	36.4	28.0	30.0	20	29.0	39.0	28.5	45.2	45.4	28.2	28.3	27.6
5	27.4	41.8	28.9	46.0	39.0	36.1	27.9	30.0	21	28.9	36.1	28.5	44.5	45.0	28.2	28.6	27.4
6	27.5	36.9	28.9	43.5	39.9	35.9	27.7	29.9	22	28.6	34.0	28.4	43.7	44.6	28.0	28.7	27.7
7	27.6	34.3	28.8	40.6	39.0	35.4	27.7	29.8	23	28.4	32.6	28.4	43.0	43.9	28.2	28.6	27.9
8	27.7	32.8	28.8	38.6	38.9	34.7	28.1	29.4	24	28.1	31.6	28.4	42.4	43.4	28.6	28.6	28.2
9	27.7	31.7	28.8	37.2	38.8	34.0	28.2	29.1	25	28.0	30.9	28.4	42.0	43.5	29.3	28.6	28.5
10	27.8	31.0	29.0	41.2	40.1	33.4	28.1	28.8	26	29.3	30.4	28.6	41.7	44.7	28.7	28.4	28.7
11	27.8	30.4	29.1	46.9	40.6	32.7	28.1	28.7	27	39.1	30.0	28.9	41.3	43.9	27.7	28.3	28.7
12	27.9	29.9	29.2	47.0	40.1	32.2	28.6	28.4	28	38.4	29.6	30.8	41.0	43.4	27.2	28.2	28.7
13	28.3	29.6	29.1	47.2	39.7	31.6	29.0	28.0	29	33.8	29.3	30.7		41.9	27.1	28.0	28.6
14	29.2	29.3	29.0	46.8	39.5	31.1	29.1	27.7	30	31.2	29.1	31.9		39.6	27.2	27.9	28.6
15	32.1	29.0	28.9	46.4	39.5	30.4	28.8	27.5	31		28.9	40.8		38.2		28.0	
16	31.3	28.8	28.8	46.5	42.4	29.9	28.5	27.5									

Crest Stages:	Date	2-4-61
	Time	0300
	Stage	47.4

E - Estimated NR - No Record

TABLE 258

DAILY GAGE HEIGHT*
SACRAMENTO RIVER NEAR ROUGH AND READY BEND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	19.6	23.2	20.8	38.5	32.7	30.4	19.4A	20.2A	17	22.9	21.5	21.5	39.0	36.8A	23.0	21.8A	19.6A
2	19.6	25.1A	20.6	38.6	32.0A	29.7	19.4A	21.8A	18	21.8	21.5	21.5A	39.1A	37.4A	22.8A	21.6A	19.6A
3	19.6	37.5A	20.4	39.2	32.0A	29.1A	19.3A	22.4A	19	21.5	31.0	21.7	38.2	38.4	22.5	21.6A	19.7A
4	19.6	37.6	20.2	39.6A	31.6A	29.1A	20.6A	23.0A	20	21.6	31.8	21.6A	37.0	37.2A	20.0A	21.5A	19.7A
5	19.6	34.7	20.1	39.0	31.8	29.1A	20.5A	23.4A	21	21.8	29.8	21.6A	36.3A	36.7A	20.0	21.4A	19.7A
6	19.6	30.6	21.1A	35.4	31.7A	29.3A	21.3A	23.1A	22	21.4	27.2	21.2	35.8	36.8	20.6A	22.2A	19.6A
7	19.6	28.0	21.3	30.9	31.5	29.2A	21.3A	22.8A	23	21.1	24.7	21.2	34.6	35.8A	20.6	22.2A	19.6A
8	20.2	26.4	21.2A	29.1	31.4A	29.0A	21.3A	22.4A	24	21.0	24.6	21.1A	35.2A	34.3A	20.5	22.2A	20.0A
9	20.3	25.0	21.0	28.1	31.4	27.3	21.6A	22.0A	25	20.6	24.0	21.5	34.6A	35.5A	20.5	20.0A	20.1A
10	20.3	24.1	21.1A	37.4	31.4A	26.4A	21.6A	21.5A	26	20.9	24.0	22.0	33.8	36.6	20.5	20.0A	20.8A
11	20.3	23.9	21.1	38.3A	NR	25.0	20.8A	21.3A	27	27.5	23.8	22.1A	33.2A	36.4A	20.4	22.0A	20.9A
12	20.5	23.8	21.0A	39.2	32.0	24.8A	21.7A	21.0A	28	31.6	23.0	23.0A	32.7	35.5A	20.0	21.5A	20.6A
13	20.5	22.5	21.0	39.6	31.8A	24.6A	21.6A	20.6A	29	27.9	22.2	23.5		33.6	19.6A	21.3A	20.7A
14	21.4	22.0	21.1A	39.2	31.2	24.2	22.5A	20.4A	30	23.4	21.2	26.8		32.4A	19.2	20.9A	20.8A
15	23.8	21.8	21.5	38.9	32.4A	23.3A	22.5A	20.0A	31		21.0	34.0		31.2A		20.7A	
16	24.6	21.5	21.5A	39.0	35.8	23.0	21.5A	19.8A									

Crest Stages:	Date						
	Time						
	Stage						

E-Estimated NR-No Record

*-Average of two daily staff gage readings.

A-Individual staff gage reading.

TABLE 259

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT HIGHWAY 20

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	39.7	39.8	38.2	46.3	38.3	38.9	40.1	43.7	17	40.0	38.7	38.1	41.6	39.1	39.0	44.2	40.2
2	39.8	43.6	38.1	46.6	38.3	39.2	41.1	44.6	18	39.3	38.9	38.1	40.2	39.5	38.9	44.2	40.1
3	40.0	43.9	38.2	47.6	38.2	39.2	42.0	44.8	19	38.9	38.7	38.1	39.5	39.1	38.9	44.4	40.1
4	39.8	43.7	38.1	47.1	38.2	39.2	42.1	44.3	20	38.7	38.7	38.0	39.2	38.6	38.6	44.4	40.5
5	39.7	42.1	38.1	46.6	38.2	40.2	42.1	43.7	21	38.6	38.6	38.0	39.1	38.5	38.9	44.3	40.4
6	40.0	40.5	38.0	45.5	38.2	39.8	41.9	42.8	22	38.4	38.6	38.1	38.9	38.4	40.2	44.2	40.6
7	40.0	39.7	38.1	43.4	38.2	39.3	42.9	42.2	23	38.3	38.6	38.1	38.8	38.3	40.7	44.0	40.6
8	39.9	39.1	38.4	41.8	38.1	39.2	43.3	41.6	24	38.3	38.5	38.1	38.6	38.2	40.8	43.7	40.6
9	39.8	38.8	38.7	42.4	38.3	39.2	42.3	41.2	25	38.3	38.5	38.1	38.5	38.1	40.1	43.4	40.7
10	39.6	38.6	38.7	44.1	38.2	39.0	43.4	41.1	26	39.2	38.4	41.1	38.5	38.1	39.5	43.0	41.0
11	39.8	38.6	38.8	43.8	38.2	39.0	43.5	41.0	27	39.2	38.3	42.7	38.4	38.2	39.2	42.6	41.0
12	40.4	38.6	38.6	42.6	38.1	39.3	43.5	41.1	28	38.9	38.3	41.3	38.4	38.2	39.1	42.6	40.8
13	40.8	38.5	38.5	41.6	38.1	39.1	43.7	40.5	29	38.7	38.3	41.6		38.0	39.1	42.6	40.9
14	41.3	38.5	38.4	40.8	38.2	40.3	43.6	40.3	30	38.7	38.2	46.0		38.0	39.7	42.6	40.8
15	41.6	38.4	38.4	40.3	38.5	40.4	43.9	40.2	31		38.2	46.0		38.7		43.0	
16	41.2	38.4	38.2	41.0	38.9	39.4	44.2	40.3									

Crest Stages	Date	12-3-60	1-27-61	2-3-61	2-10-61	2-16-61	5-19-61	6-3-61	9-8-61
	Time	2200	0130	0730	1500	2330	2300	1230	2200
	Stage	44.1	43.4	47.6	44.1	42.3	44.5	44.8	44.5

E-Estimated NR-No Record

TABLE 260

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN NEAR COLLEGE CITY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	25.9	25.2	24.6	31.3	25.9	26.7	25.7	28.6	17	26.2	25.0	24.6	28.1	26.5	25.3	29.3	25.8
2	25.8	27.7	24.6	31.5	25.9	26.7	26.5	29.3	18	25.6	25.1	24.6	27.4	26.6	25.0	29.2	25.8
3	26.0	28.9	24.6	32.1	25.8	26.6	27.0	29.7	19	25.3	25.1	24.6	26.9	26.7	25.1	29.3	25.9
4	26.2	29.6	24.6	32.1	25.8	26.3	27.2	29.6	20	25.1	25.0	24.6	26.6	26.4	25.0	29.4	25.9
5	26.3	29.1	24.6	32.0	26.1	26.6	27.4	29.2	21	25.0	25.1	24.5	26.5	26.2	25.0	29.3	25.8
6	26.2	27.8	24.5	31.6	26.0	26.9	27.2	28.5	22	24.9	25.0	24.6	26.3	26.2	25.6	29.3	25.9
7	26.1	26.6	24.5	30.7	25.9	26.4	27.7	28.0	23	24.7	24.9	24.6	26.1	26.1	26.4	29.0	26.1
8	26.1	25.7	24.7	29.4	26.0	26.0	28.2	27.4	24	24.7	24.9	24.6	26.2	26.2	26.5	28.9	26.1
9	26.0	25.3	25.0	28.7	26.0	25.7	28.3	27.1	25	24.7	24.9	24.6	26.1	26.0	26.2	28.8	26.2
10	25.9	25.1	25.0	29.6	26.0	25.6	28.4	27.0	26	25.0	24.8	25.7	26.0	26.1	25.7	28.5	26.3
11	25.9	25.0	25.0	29.9	26.0	25.4	28.7	26.8	27	25.5	24.8	27.9	26.0	26.0	25.4	28.2	26.5
12	26.2	24.9	25.0	29.4	26.0	25.7	28.7	26.9	28	25.2	24.7	27.2	25.8	25.8	25.2	28.1	26.3
13	26.5	24.9	24.9	28.6	25.9	25.4	28.8	26.6	29	25.1	24.7	26.6		25.8	25.1	28.0	26.3
14	26.9	24.9	24.8	27.9	26.1	25.9	28.8	26.2	30	24.9	24.7	29.5		26.0	25.3	28.0	26.2
15	27.2	24.8	24.8	27.5	26.2	26.3	28.9	26.0	31		24.6	30.6		26.4		28.2	
16	27.2	24.8	24.7	27.3	26.4	25.7	29.2	25.9									

Crest Stages:	Date	11-16-60	12-4-60	1-27-61	2-3-61	2-11-61	2-17-61	6-3-61	9-12-61
	Time	1400	1600	1130	2200	0330	1300	2200	0630
	Stage	27.4	29.7	28.1	32.2	30.0	28.2	29.8	29.4

E - Estimated NR - No Record

TABLE 261

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	22.25	21.18	20.20	28.05	25.86	26.22	24.49	24.19	17	22.19	21.47	20.25	26.80	26.16	23.71	24.40	24.54
2	22.28	22.48	20.18	28.32	25.85	26.06	24.56	24.20	18	21.72	21.85	20.16	26.77	26.22	23.82	24.43	24.65
3	22.34	26.04	20.17	28.50	25.82	25.77	24.37	24.55	19	21.29	22.77	20.12	26.45	26.25	24.30	24.33	24.70
4	22.38	27.38	20.19	28.62	25.77	25.69	24.34	24.46	20	20.97	23.50	20.13	26.30	26.22	24.42	24.30	24.52
5	22.56	27.48	20.15	28.66	25.83	25.71	24.22	24.27	21	20.80	24.08	20.15	26.21	26.09	24.15	24.26	24.38
6	22.70	26.75	20.13	28.65	25.90	25.74	24.39	24.16	22	20.65	23.53	20.13	26.17	26.04	24.24	24.23	24.32
7	22.71	25.19	20.08	28.40	25.90	25.44	24.48	24.18	23	20.48	22.37	20.19	26.08	26.00	24.51	24.18	24.54
8	22.68	23.62	20.12	27.81	25.89	24.86	24.39	24.22	24	20.31	21.49	20.16	26.02	25.96	24.31	24.35	24.68
9	22.61	22.33	20.29	27.21	25.90	24.25	24.09	24.55	25	20.29	20.93	20.25	26.02	25.96	24.20	24.47	24.54
10	22.17	21.45	20.55	27.34	25.93	23.55	24.33	24.26	26	20.43	20.65	20.42	25.97	25.90	24.21	24.41	24.45
11	21.63	20.94	20.61	27.68	25.90	23.09	24.49	24.12	27	21.81	20.54	21.85	25.91	25.92	24.45	24.29	24.53
12	21.53	20.66	20.61	27.55	25.92	23.78	24.40	24.36	28	23.26	20.43	22.51	25.91	25.91	24.35	24.41	24.61
13	21.68	20.58	20.57	27.24	25.92	23.81	24.38	24.47	29	23.59	20.22	22.29		25.87	24.16	24.33	24.45
14	21.91	20.69	20.51	26.94	25.91	23.62	24.41	24.31	30	22.06	20.26	22.85		25.84	24.29	24.28	24.34
15	22.18	21.09	20.42	26.71	26.03	23.80	24.44	24.17	31		20.24	25.89		26.09		24.31	
16	22.46	21.23	20.36	26.59	26.07	23.90	24.30	24.16									

Crest Stages:	Date	11-29-60	12-5-60	12-21-60	2-5-61	2-11-61	3-18-61	3-19-61	4-1-61
	Time	0715	0415	1730	2400	1330	1100	2345	1345
	Stage	23.97	27.60	24.26	28.69	27.77	26.30	26.30	26.29

E - Estimated NR - No Record

TABLE 262

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT KNIGHTS LANDING

In feet

Date	1960		1961						Date	1960		19					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	16.38	19.78	17.74	30.83E	27.29	25.90	16.57	18.43	17	19.41	18.06	17.65	34.25E	31.00E	18.94	19.07	16.20
2	16.32	23.21	17.62	33.21E	27.02	25.51	17.06	19.06	18	18.43	20.15	17.62	33.95E	32.00E	18.33	19.05	16.23
3	16.37	31.11	17.55	33.65E	26.57	25.17	17.62	19.69	19	18.02	24.94	17.52	32.22E	32.25E	17.78	19.10	16.21
4	16.43	31.47	17.65	34.34E	25.98	25.10	17.76	20.30	20	18.29	26.30	17.50	32.33E	31.75E	17.52	19.27	16.20
5	16.47	29.45	17.73	34.42E	25.72	25.15	17.72	20.28	21	18.28	24.58	17.42	31.42E	31.50E	17.24	19.68	15.98
6	16.58	26.37	17.72	32.94E	25.56	25.17	17.45	19.77	22	17.92	23.01	17.34	30.51	31.27	17.11	19.60	15.97
7	16.62	24.36	17.66	30.65E	25.53	24.83	17.45	19.41	23	17.61	21.74	17.24	29.75	30.72	17.50	19.47	16.16
8	16.71	22.82	17.63	28.38E	25.61	24.23	17.91	18.85	24	17.34	20.77	17.24	29.13	30.32	17.92	19.22	16.33
9	16.75	21.48	17.64	26.72E	25.53	23.61	18.02	18.38	25	17.17	20.03	17.29	28.58	30.55E	18.27	19.18	16.67
10	16.88	20.52	17.81	28.32E	26.12	22.88	17.91	18.13	26	17.59	19.52	17.42	28.22	31.47E	18.03	19.08	16.95
11	16.89	19.76	17.99	33.30E	26.87	22.02	18.19	17.98	27	23.48	19.15	17.81	27.80	31.32	17.10	18.86	16.95
12	16.95	19.19	18.10	34.32E	26.74	21.29	18.95	17.56	28	25.98	18.82	19.03	27.49	30.65	16.48	18.64	16.88
13	17.30	18.82	18.08	35.08E	26.40	20.98	19.32	17.08	29	23.22	18.42	19.80		30.00	16.12	18.38	16.95
14	18.02	18.46	18.00	35.05E	26.15	20.79	19.64	16.90	30	21.06	18.10	19.84		28.31	16.15	18.04	16.95
15	20.01	18.13	17.90	34.72E	26.13	20.11	19.32	16.58	31		17.91	25.35		26.83		18.03	
16	20.67	17.95	17.75	34.35E	28.02	19.57	19.00	16.32									

Crest Stages:								
	Date	11-28-60	12-3-60	12-20-60	2-5-61	2-13-61	3-11-61	3-19-61	3-26-61
	Time	0315	2400	0330	0400	1600	2200	0700	2400
	Stage	26.54	31.73	26.59	34.55E	35.15E	26.90	32.40E	31.67

E - Estimated NR - No Record

TABLE 263

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT MAWSON BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	40.6	41.4	39.8	46.9	45.8	45.4	41.3	42.7	17	40.3	41.7	40.6	49.6	45.8	40.5	42.4	42.2
2	40.6	44.3	39.8	50.8	45.6	45.0	41.3	42.8	18	40.1	43.8	40.6	49.0	46.1	40.4	42.4	42.3
3	40.7	49.2	39.9	52.9	45.4	44.8	41.4	42.8	19	40.0	45.0	40.4	48.6	46.3	40.5	42.4	42.3
4	40.7	51.8	39.9	53.8	45.2	44.7	41.4	42.8	20	39.9	45.2	40.3	48.2	46.3	40.9	42.4	42.3
5	40.8	50.0	39.9	53.0	45.1	44.5	41.3	42.8	21	39.8	44.3	40.2	47.9	46.4	41.2	42.6	42.3
6	40.9	47.7	39.9	51.7	45.0	44.2	41.4	42.7	22	39.8	43.0	40.0	47.6	46.4	41.0	42.6	42.3
7	41.0	46.0	39.9	50.3	44.8	44.0	41.6	42.6	23	39.9	42.1	39.9	47.3	46.4	41.1	42.6	42.4
8	41.2	44.8	40.0	48.7	44.6	43.7	41.9	42.5	24	40.0	41.5	39.9	47.0	46.3	41.4	42.8	42.4
9	41.3	43.7	40.3	47.6	44.5	43.2	42.0	42.5	25	40.0	41.0	39.9	46.7	46.3	41.7	42.6	42.4
10	41.2	42.4	40.9	47.9	44.6	42.7	42.1	42.7	26	40.9	40.7	40.0	46.4	46.4	41.3	42.6	42.4
11	41.2	41.6	41.3	49.4	44.5	42.3	42.2	42.3	27	45.0	40.4	40.3	46.2	46.4	41.0	42.4	42.2
12	41.4	41.3	41.3	51.4	44.4	42.0	42.1	42.2	28	45.2	40.2	41.0	46.0	46.5	41.1	42.4	42.2
13	41.6	40.8	41.1	52.5	44.4	41.6	42.3	42.4	29	43.1	40.0	41.0		46.5	41.3	42.6	42.3
14	41.7	40.4	41.1	52.2	44.5	41.1	42.3	42.2	30	41.8	39.9	42.5		46.4	41.4	42.4	42.3
15	41.8	40.3	40.9	51.3	44.7	40.7	42.4	42.1	31		39.8	46.2		45.8		42.4	
16	41.0	41.0	40.7	50.5	45.3	40.6	42.4	42.0									

Crest Stages:						
	Date	11-28-60	12-4-60	12-20-60	2-4-61	2-13-61
	Time	0900	0200	1845	1100	1700
	Stage	45.6	52.2	45.2	53.9	52.6

E - Estimated NR - No Record

TABLE 264

DAILY MEAN GAGE HEIGHT
SUTTER BYPASS AT LONG BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May*	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May*	June
1				41.4	40.4	39.4	39.8	40.6	17				44.0	39.8	39.1	40.1	40.7
2				43.7	40.1		39.8	40.5	18				43.6	40.4	39.0	40.1	40.9
3		41.4		45.3	39.6		39.8	40.5	19				43.4	40.5	39.0	40.1	41.0
4		44.8		45.8	39.0		39.9	40.5	20		39.4		43.1	40.6	39.4	40.1	41.0
5		44.2		45.5			39.8	40.5	21				42.8	40.6	39.8	40.2	41.0
6		42.6		45.0			39.8	40.5	22				42.6	40.6	39.8	40.2	41.0
7		40.8		44.3			39.8	40.4	23				42.3	40.6	39.7	40.2	41.0
8		39.1		43.5			39.9	40.4	24				42.0	40.6	39.8	40.2	41.0
9				42.7		39.2	40.0	40.4	25				41.7	40.6	39.9	40.2	41.0
10				42.6		39.0	40.0	40.5	26				41.4	40.6	39.8	40.2	40.9
11				43.4		39.0	40.0	40.4	27				41.0	40.7	39.6	40.5	40.8
12				44.6		39.0	40.0	40.3	28				40.7	40.7	39.7	40.5	40.9
13				45.2			40.1	40.4	29					40.7	39.8	40.6	40.9
14				45.1			40.1	40.3	30					40.6	39.8	40.4	40.9
15				44.8			40.1	40.4	31			39.7		40.0		40.4	
16				44.4			40.1	40.6									

Crest Stages:	Date	12-4-60	12-20-60	2-4-61	2-13-61	3-28-61
	Time	1100	2100	1445	2300	0500
	Stage	45.0	39.5	45.9	45.3	40.8

E - Estimated NR - No Record

* Mean of twice daily gage height readings.
Note: Gage heights below 39.0 are not indicative of flow in channel and have not been listed.

TABLE 265

DAILY MEAN GAGE HEIGHT
WADSWORTH CANAL NEAR SUTTER

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	48.8	45.4 a	42.2 E	44.7	43.7	38.9	39.7	41.6	17	48.3	42.4	42.1	43.3	40.6	39.5	40.5	39.4
2	48.9	43.5	42.2 E	45.2	43.7	38.8	40.0	41.6	18	48.3	42.4	42.1	43.1	40.0	38.9	40.6	39.4
3	49.0	43.0	42.2 E	44.8	43.6	38.8	39.8	41.4	19	48.3	42.3	42.1	43.0	39.6	39.0	40.9	39.1
4	49.0	42.8	42.2 E	43.8	43.6	38.8	39.8	41.2	20	48.3	42.3	42.1	43.6 e	39.6	38.7	40.7	39.2
5	49.1	42.6	42.2 E	43.5	43.6	38.7	39.3	40.9	21	48.3	42.3	42.1	43.9	39.4	38.8	40.9	39.5
6	49.1	42.5	42.2 E	43.2	43.6	38.8	38.9	40.8	22	48.3	42.2	42.1	43.9	39.3	38.5	40.7	39.3
7	48.9	42.4	42.2 E	43.1	45.0 a	39.1	39.2	40.6	23	48.2	42.2	42.1	43.8	39.3	38.7	40.8	39.1
8	48.9	42.4	42.2 E	43.0	47.8	39.4	39.8	40.4	24	48.3	42.2	42.1	43.8	39.3	38.9	41.0	39.4
9	48.6	42.3	42.2 E	44.7	47.9	39.1	39.9	40.2	25	48.3	42.2	42.1	43.8	39.3	39.3	40.6	40.0
10	48.3	42.3	42.2 E	44.4	47.8	39.2	39.9	40.3	26	48.9	42.2	42.1	43.8	39.2	39.4	40.3	39.8
11	48.2	42.3	42.1	43.9	38.9	39.2	39.8	40.4	27	48.8	42.2	42.1	43.7	39.2	39.7	40.7	39.7
12	48.3	42.3	42.1	43.6	38.8	39.3	40.1	40.2	28	48.6	42.2	42.1	43.7	39.1	39.0	40.9	39.7
13	48.4	42.3	42.1	43.3	38.8	39.4	40.2	40.0	29	48.5	42.2	43.0		39.1	39.2	41.0	39.4
14	48.4	42.2	42.1	43.2	38.8	39.5	40.5	39.9	30	47.1	42.2	44.0		39.0	39.6	41.0	39.3
15	48.3	42.2	42.1	43.4	41.0	39.8	40.5	39.5	31		42.2 E	45.3		38.6		41.2	
16	48.3	42.2	42.1	43.9	40.0	40.0	40.4	39.3									

Crest Stages:	Date	1-29-61	1-31-61	2-2-61	2-9-61	3-15-61	3-17-61
	Time	2000	1700	1130	1830	1030	0930
	Stage	44.4	46.3	46.3	45.4	41.8	41.0

E - Estimated NR - No Record

a - Board change.

TABLE 266

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 3

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	39.2	35.6	38.9	35.0	33.8	33.4	38.6	38.2	17	38.6	38.8	NR	39.6	33.5	37.9	38.4	38.6
2	39.2	34.0	38.9	37.2	33.5	33.3	38.7	38.0	18	38.6	39.0	NR	38.2	34.1	38.0	38.6	38.4
3	39.2	35.0	38.4	41.5	33.5	35.0	38.6	38.0	19	38.8	39.2	NR	37.2	34.5	38.2	38.6	38.5
4	39.3	40.0	37.0	42.7	33.5	38.0	38.6	38.2	20	38.9	39.4	NR	36.4	34.6	38.3	38.4	38.6
5	39.3	39.8	35.1	42.5	33.5	38.1	38.5	38.0	21	39.0	39.2	NR	35.8	34.5	38.4	38.4	38.6
6	39.3	37.6	34.2	41.8	33.5	38.1	38.2	38.0	22	39.0	38.9	NR	35.0	34.5	38.2	38.4	38.5
7	39.3	35.1	34.0	40.9	33.5	38.1	38.5	38.0	23	39.0	38.8	NR	34.7	34.4	38.2	38.6	38.5
8	39.3	35.0	33.5	38.8	32.0	38.1	38.6	38.1	24	38.9	38.9	NR	34.7	34.4	38.2	38.6	38.6
9	39.3	34.2	33.0	37.0	32.0	38.0	38.8	38.4	25	39.0	38.8	NR	34.6	34.4	38.2	38.4	38.7
10	39.3	33.0	33.0	36.4	32.0	38.0	38.7	38.4	26	38.4	38.9	NR	34.5	34.4	38.4	38.4	38.6
11	38.7	33.0	NR	37.2	32.0	37.9	38.4	38.4	27	37.6	38.8	NR	34.5	34.4	38.8	38.4	38.4
12	38.4	33.0	NR	39.6	32.0	38.0	38.4	38.4	28	37.6	38.8	NR	34.5	34.4	38.6	38.4	38.4
13	38.6	33.0	NR	41.4	32.9	38.3	38.4	38.4	29	37.4	38.9	NR		34.4	38.4	38.5	38.4
14	38.6	36.0	NR	42.0	32.9	38.2	38.5	38.4	30	37.2	38.9	NR		34.4	38.6	38.4	38.3
15	38.6	37.0	NR	41.4	33.4	38.2	38.4	38.4	31		38.9	34.9		33.8		38.3	
16	38.8	37.8	NR	40.6	33.5	38.1	38.4	38.4									

Crest Stages:	Date																
	Time																
	Stage																

NR — No Record
* Average of 7:00 AM and 6:00 PM staff gage readings.

TABLE 267

DAILY GAGE HEIGHT*
TISDALE BYPASS AT RECLAMATION DISTRICT 1660 PUMPING PLANT

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	22.4	23.9	22.4	26.2	29.0	29.0	22.8	24.6	17	22.8	22.5	22.2	37.3	27.6	22.5	23.5	23.0
2	22.4	24.3	22.4	38.5	28.6	28.1	22.8	24.9	18	22.8	22.6	22.1	36.6	33.3	22.5	23.6	23.0
3	22.8	38.3	22.3	37.7	28.0	27.3	22.8	25.0	19	22.6	22.6	22.1	35.0	36.1	22.5	24.0	23.1
4	22.7	36.3	22.4	39.0	27.6	26.5	23.0	24.9	20	22.5	23.7	22.0	33.7	33.3	22.5	24.0	22.8
5	23.2	33.6	23.0	37.6	27.1	25.8	23.3	24.9	21	22.5	25.3	22.0	33.0	31.7	23.0	24.3	23.0
6	23.1	33.5	23.1	35.9	26.6	25.5	22.7	24.7	22	22.4	25.2	22.0	32.6	31.0	22.5	24.6	22.7
7	23.0	33.0	22.8	34.9	26.4	25.3	22.7	24.5	23	22.3	24.4	22.0	32.2	30.3	22.7	24.4	22.9
8	23.3	32.3	22.8	34.2	26.6	24.8	22.7	24.4	24	22.3	24.0	22.0	31.6	29.9	22.8	24.4	22.8
9	23.4	30.7	22.8	33.6	26.2	24.3	23.0	24.0	25	22.2	23.5	22.0	31.0	29.7	22.8	24.9	22.8
10	22.3	28.0	23.8	33.1	26.0	23.7	23.1	23.6	26	22.8	23.1	22.1	30.6	29.7	23.0	25.2	22.9
11	22.6	25.3	22.9	37.6	25.5	23.2	23.3	23.6	27	23.6	22.7	22.1	30.0	29.9	23.0	24.6	23.3
12	22.8	24.4	22.5	37.3	25.6	23.0	23.2	23.5	28	24.5	22.7	22.2	29.5	29.8	23.1	24.5	23.1
13	23.0	23.6	22.5	38.5	25.7	22.8	23.6	23.5	29	25.2	22.5	22.4		29.7	22.9	24.3	23.0
14	23.2	23.1	22.4	37.9	25.6	22.7	23.4	23.4	30	24.4	22.4	22.7		29.6	22.9	24.2	22.8
15	23.2	22.7	22.4	37.0	25.9	22.6	23.2	23.3	31		22.4	23.2		29.4		24.3	
16	23.0	22.5	22.3	36.5	26.3	22.6	23.3	22.8									

Crest Stages:	Date																
	Time																
	Stage																

NR — No Record
* Individual daily staff gage readings.

TABLE 268

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 2

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	28.2	28.4	28.2	29.8	29.4	29.6	29.4	28.9	17	27.2	26.8	26.0	35.3	28.8	28.9	29.4	29.4
2	28.2	28.1	28.4	34.2	28.9	29.0	29.9	28.8	18	27.3	28.0	25.9	34.9	29.8	28.4	29.1	29.6
3	28.1	30.6	28.8	35.4	28.4	27.9	30.2	28.7	19	27.1	29.2	25.8	34.0	32.0	28.2	29.2	29.8
4	28.1	34.0	29.0	36.8	28.0	27.0	29.6	28.7	20	25.4	29.4	25.8	33.3	32.2	28.0	29.4	29.8
5	28.2	33.9	27.8	36.8	27.8	28.9	29.6	28.6	21	25.1	29.4	25.7	32.7	32.0	28.0	28.9	29.8
6	28.4	33.4	26.8	35.8	27.6	29.3	29.2	28.4	22	25.0	28.9	25.6	32.4	31.6	28.4	28.8	30.0
7	28.6	32.6	26.2	34.8	27.5	29.0	29.0	28.4	23	25.0	28.2	25.6	32.2	31.4	28.6	28.8	29.9
8	28.6	31.8	25.9	34.2	27.4	28.8	29.0	28.6	24	25.3	27.6	25.6	32.0	31.0	29.1	29.0	29.9
9	28.6	30.7	26.1	33.4	27.5	28.8	29.4	28.6	25	25.6	27.4	25.6	31.6	30.8	29.6	29.0	30.0
10	28.4	28.9	26.1	32.8	27.5	28.6	29.6	28.9	26	27.0	27.2	25.8	31.1	30.8	29.8	28.8	30.2
11	28.3	27.2	26.2	33.8	27.4	28.2	29.8	29.2	27	28.1	27.0	25.9	30.6	30.8	29.8	29.0	30.4
12	28.5	26.6	26.2	35.0	27.4	28.2	29.2	29.3	28	28.4	27.4	26.0	30.1	31.0	29.7	29.0	30.4
13	28.0	26.1	26.2	36.0	27.4	28.4	29.0	29.4	29	28.4	27.7	26.2		30.9	29.5	29.2	30.2
14	27.8	25.0	26.1	36.3	27.4	28.6	29.2	29.4	30	27.6	28.0	27.2		30.8	29.4	29.2	30.2
15	27.6	25.4	26.1	36.0	27.8	28.8	29.5	29.4	31		28.0	28.2		30.4		29.2	
16	27.0	26.4	26.0	35.4	28.3	29.0	29.6	29.4									

Crest Stages:	Date							
	Time							
	Stage							

NR – No Record
* Average of 7:00 AM and 5:00 PM staff gage readings.

TABLE 269

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 1

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	28.2	25.0	28.2	27.8	28.2	29.6	29.3	27.6	17	27.0	26.9	23.0	34.2	27.2	28.9	29.2	29.4
2	28.1	25.8	28.4	31.6	27.6	28.7	30.0	27.2	18	27.3	27.8	23.0	33.9	28.9	28.4	28.6	29.6
3	28.0	27.2	28.8	33.6	26.9	26.8	30.0	27.4	19	27.2	29.2	22.8	33.1	31.4	28.2	28.8	29.8
4	28.1	32.4	28.8	35.2	26.3	25.6	29.2	27.8	20	26.0	28.7	22.8	32.5	31.8	28.0	28.8	29.8
5	28.2	32.5	27.6	35.8	25.8	28.4	29.4	27.6	21	24.4	28.8	22.8	31.9	31.4	28.0	28.5	29.8
6	28.4	32.4	26.4	34.6	25.7	29.0	29.1	27.8	22	24.8	28.4	22.7	31.6	31.2	28.4	28.4	30.0
7	28.6	31.9	25.5	33.8	25.4	28.4	28.8	28.2	23	23.0	27.6	22.7	31.5	30.8	28.7	28.4	29.9
8	28.6	31.3	24.5	32.9	25.2	28.0	28.8	28.4	24	23.8	27.0	22.7	31.2	30.4	29.1	28.7	29.9
9	28.4	30.2	23.9	32.4	25.0	28.2	29.2	28.4	25	25.1	27.2	22.7	30.9	30.1	29.6	28.6	30.0
10	28.4	27.8	23.2	32.0	25.0	28.0	29.4	28.8	26	25.6	26.8	22.7	30.4	30.1	29.8	28.4	30.2
11	28.2	26.0	23.2	31.8	25.0	27.7	29.3	29.1	27	25.8	26.8	22.9	29.9	30.2	29.8	28.5	30.3
12	28.0	24.2	23.2	33.3	24.9	28.0	28.9	29.2	28	25.7	27.4	22.8	29.0	30.3	29.7	28.6	30.4
13	27.4	23.8	23.2	34.5	24.9	28.2	28.8	29.3	29	26.4	27.6	23.1		30.3	29.4	28.8	30.2
14	27.0	24.6	23.2	35.0	24.8	28.4	29.0	29.3	30	25.6	28.0	24.1		30.2	29.4	28.8	30.2
15	26.8	24.9	23.2	34.8	25.2	28.8	29.3	29.3	31		28.1	25.2		29.7		28.8	
16	26.4	26.2	23.1	34.4	26.2	29.0	29.4	29.3									

Crest Stages:	Date							
	Time							
	Stage							

NR – No Record
* Average of 7:00 AM and 5:00 PM staff gage readings.

TABLE 270

DAILY MEAN GAGE HEIGHT
SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR	16.60	14.22	24.59	21.63	22.48	14.17	16.24	17	16.00	14.86	14.20	30.28	24.84	15.87	16.69	NR
2	NR	18.14	14.08	27.56	21.34	21.96	14.53	16.89	18	15.24	16.58	14.17	29.94	25.97	15.61	16.82	NR
3	NR	24.07	14.02	28.80	20.97	21.54	15.11	17.17	19	15.04	19.64	14.08	29.19	26.44	15.24	16.80	NR
4	NR	25.70	14.19	30.02	20.46	21.53	15.38	17.60	20	15.55	20.85	14.08	28.19	26.49	14.82	17.05	NR
5	NR	25.76	14.39	30.75	20.19	21.79	15.33	17.19	21	15.32	19.85	13.99	27.23	26.39	14.27	17.44	NR
6	NR	24.78E	14.42	30.26	19.88	21.83	14.96	16.82	22	14.95	18.74	13.89	26.42	26.17	14.10	17.27	NR
7	NR	23.26	14.33	28.95	19.98	21.41	14.84	16.31	23	14.50	17.83	13.78	25.42	25.75	14.64	17.06	NR
8	NR	21.31	14.27	27.60	19.96	20.85	15.12	15.68	24	14.23	17.05	13.75	24.42	25.65	14.95	16.79	NR
9	NR	19.29	14.26	26.42	19.81	20.12	15.08	15.20	25	14.09	16.43	13.82	23.56	26.06	14.91	16.66	NR
10	NR	18.14	14.42	26.14	20.36	19.40	15.07	14.99	26	14.70	15.99	14.00	22.85	26.64	14.77	16.61	NR
11	NR	17.04	14.59	28.38	20.97	18.72	15.67	14.78	27	19.21	15.69	14.40	22.32	26.71	14.22	16.42	13.31
12	NR	16.07	14.65	29.99	20.92	18.01	16.54	14.48	28	21.05	15.34	15.19	21.94	26.38	13.88	16.14	13.24
13	NR	15.66	14.58	31.02	20.65	17.70	16.77	14.14	29	19.40	14.88	15.76		25.93	13.72	15.75	NR
14	NR	15.21	14.47	31.23	20.47	17.61	17.25	14.09	30	17.70	14.54	15.90		24.87	13.80	15.55	NR
15	16.29	14.89	14.35	31.04	20.70	16.86	16.50	13.96	31		14.39	19.32		23.58		15.66	
16	16.89	14.76	14.25	30.60	22.90	16.30	16.39	13.74									

Crest Stages:								
	Date	11-28-60	12-4-60	12-20-60	2-5-61	2-14-61	3-20-61	3-27-61	4-6-61
	Time	0715	2000	0600	1715	0730	0530	0415	0315
	Stage	21.29	25.94	20.98	30.87	31.26	26.57	26.79	21.93

E - Estimated NR - No Record

TABLE 271

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT FREMONT WEIR WEST END

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	14.59	17.97	15.94	27.87	24.36	24.11	15.20	16.80	17	17.60	16.42	15.86	32.04	27.86	17.37	17.64	14.44
2	14.55	20.27	15.81	30.30	24.13	23.57	15.67	17.44	18	16.74	18.25	15.82	31.62	28.87	16.96	17.65	14.4[illegible]
3	14.58	27.49	15.76	30.94	23.75	23.28	16.21	18.00	19	16.43	22.27	15.76	30.81	29.22	16.5[illegible]	17.70	14.35
4	14.68	28.33	15.88	31.79	23.19	23.28	16.30	18.51	20	16.78	23.51	15.74	29.76	28.86	16.16	17.92	14.28
5	14.65	26.92	15.96	32.23	22.94	23.42	16.26	18.45	21	16.71	21.99	15.65	28.75	28.6[illegible]	15.77	18.29	14.1[illegible]
6	14.72	24.43	15.98	31.15	22.76	23.44	15.96	17.99	22	16.35	20.65	15.56	27.86	28.57	15.6[illegible]	18.19	14.07
7	14.77	22.65	15.89	29.00	22.82	23.08	15.96	17.57	23	16.04	19.59	15.47	27.07	28.10	16.07	18.01	14.[illegible]
8	14.83	21.07	15.88	26.76	22.88	22.54	16.37	17.05	24	15.77	18.76	15.47	26.40	27.91	16.41	17.73	14.[illegible]
9	14.89	19.77	15.91	25.02	22.77	21.80	16.43	16.53	25	15.6[illegible]	18.12	15.53	25.79	28.21	16.57	17.59	14.6[illegible]
10	15.03	18.85	16.09	26.46	23.28	21.08	16.35	16.32	26	16.08	17.66	15.69	25.35	28.90	16.39	17.45	14.88
11	15.05	18.14	16.25	30.68	24.04	20.34	16.81	16.11	27	21.16	17.34	16.13	24.92	28.95	15.60	17.28	14.89
12	15.12	17.56	16.32	32.06	23.86	19.64	17.61	15.74	28	23.57	17.01	17.12	24.61	28.43	15.07	17.00	14.8[illegible]
13	15.48	17.20	16.27	32.88	23.53	19.31	17.87	15.27	29	21.29	16.62	17.70		27.84	14.79	16.71	14.92
14	16.25	16.77	16.17	32.94	23.30	19.17	18.14	15.12	30	19.25	16.29	17.84		26.[illegible]	14.81	16.38	14.92
15	17.97	16.46	16.07	32.67	23.44	18.48	17.83	14.85	31		16.13	22.21		24.95		16.[illegible]	
16	18.67	16.31	15.95	32.31	25.44	17.91	17.50	14.61									

Crest Stages:								
	Date	11-28-60	12-4-60	12-20-60	2-5-61	2-13-61	3-19-61	3-27-61
	Time	0545	1145	0315	1215	2400	1200	0315
	Stage	23.95	28.43	23.81	32.34	32.98	29.27	29.14

E - Estimated NR - No Record

TABLE 27[illegible]

DAILY MEAN GA[illegible] HEIGHT
SACRAMENT[illegible] RIVER AT FREM[illegible]NT [illegible]IR [illegible]T EN[illegible]

In [illegible]

Date	[illegible]		[illegible]						Date	[illegible]		[illegible]					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan.	Feb	Mar	Apr	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8									24								
9									25								
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
Note: Gage height did not exceed crest of weir (3[illegible].5 feet) during entire [illegible]ear.

TABLE 273

DAILY MEAN GAGE HEIGHT
FEATHER RIVER NEAR OROVILLE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	7.[illegible]	11.98	7.26	[illegible].9[illegible]	6.30	13.34	13.07	[illegible].32	17	9.48	12.73	7.24	1[illegible].06	14.27	13.77	1[illegible].18	8.90
2	7.1[illegible]	17.29	7.20	10.69	6.52	13.69	1[illegible].79	12.31	18	[illegible].[illegible]	12.78	7.52	11.90	13.01	13.15	1[illegible].21	8.44
3	7.11	[illegible].32	7.[illegible]3	16.1[illegible]	8.55	15.17	[illegible].61	[illegible].33	19	[illegible].[illegible]	11.59	7.[illegible]2	11.21	12.13	12.27	1[illegible].57	8.38
4	6.8[illegible]	10.89	7.29	1[illegible].77	8.77	16.66	[illegible].69	[illegible].36	20	9.92	11.01	7.1[illegible]	11.15	1[illegible].62	11.60	1[illegible].4[illegible]	8.83
5	6.5[illegible]	[illegible].21	[illegible].29	11.8[illegible]	[illegible].66	16.[illegible]3	12.03	10.88	21	9.57	10.67	6.77	11.0[illegible]	1[illegible].24	11.[illegible]4	1[illegible].02	8.72
6	6.55	9.85	7.2[illegible]	[illegible].5[illegible]	9.5[illegible]	[illegible]5.29	[illegible].53	10.4[illegible]	22	[illegible].5[illegible]	[illegible].5[illegible]	6.4[illegible]	9.94	1[illegible].15	12.8[illegible]	12.77	8.85
7	6.61	9.71	7.11	10.94	9.16	[illegible].80	[illegible].45	[illegible].73	23	8.4[illegible]	[illegible].[illegible]6	7.06	[illegible].17	16.4[illegible]	12.12	12.28	8.83
8	6.7[illegible]	9.60	7.13	10.52	8.86	[illegible].[illegible]2	[illegible].39	[illegible].9[illegible]	24	[illegible].73	10.24	6.[illegible]0	9.80	[illegible].7.54	[illegible].1.34	[illegible].1.9[illegible]	8.8[illegible]
9	6.62	[illegible].52	[illegible].35	[illegible]7.95	[illegible]0.[illegible]9	13.31	11.8[illegible]	9.[illegible]	25	[illegible].27	[illegible].16	[illegible].5[illegible]	[illegible].4[illegible]	16.74	[illegible].1.[illegible]1	11.99	8.75
10	6.60	9.71	7.73	[illegible].15	9.85	13.1[illegible]	1[illegible].96	9.04	26	1[illegible].89	[illegible].[illegible]7	6.88	[illegible].08	1[illegible].55	11.[illegible]4	11.8[illegible]	9.12
11	6.72	9.73	7.50	[illegible]4.6[illegible]	9.61	12.3[illegible]	13.96	8.63	27	11.[illegible]5	9.60	7.77	9.4[illegible]	[illegible].5.53	11.4[illegible]	[illegible].[illegible]85	9.45
12	7.90	9.65	7.4[illegible]	[illegible].[illegible]0	[illegible].26	12.80	13.61	9.32	28	[illegible].[illegible]3	8.58	6.8[illegible]	[illegible].8[illegible]	[illegible].4.6[illegible]	11.77	[illegible].[illegible].66	9.47
13	9.21	[illegible].6[illegible]	7.[illegible]4	[illegible]5.0[illegible]	[illegible].30	13.[illegible]1	[illegible].44	9.27	29	9.7[illegible]	[illegible].[illegible]2	7.[illegible]3		[illegible]3.76	12.22	[illegible]1.61	[illegible].43
14	9.[illegible]	9.61	7.17	1[illegible].[illegible]0	9.7[illegible]	12.[illegible]6	13.1[illegible]	9.65	30	[illegible].61	7.[illegible]0	9.[illegible]		[illegible]3.5[illegible]	[illegible]1.78	[illegible].1.[illegible]7	9.[illegible]7
15	9.8[illegible]	9.6[illegible]	7.18	14.00	[illegible].4.[illegible]9	[illegible].[illegible]3	12.69	9.4[illegible]	31		7.[illegible]2	[illegible].[illegible]		[illegible].[illegible].[illegible]2		11.5	
16	9.54	10.[illegible]0	7.2[illegible]	14.10	[illegible]4.[illegible]4	[illegible]1.9[illegible]	13.[illegible]4	9.4[illegible]									

Crest Stages:	Date	12-1-60	12-18-60	1-[illegible]1-6[illegible]	1-[illegible]1-6[illegible]	[illegible]-9-61	2-1-[illegible]1	[illegible]-24-61	[illegible]-[illegible]-61
	Time	[illegible]:[illegible]0	[illegible]:[illegible]3	1[illegible]:[illegible]0	[illegible]:71[illegible]	12:[illegible]0	[illegible]:[illegible]0	[illegible]:2[illegible]	[illegible]:[illegible]
	Stage	19.21	1[illegible].80	[illegible]9.[illegible]8	[illegible]9.2[illegible]	[illegible].76	[illegible]1.[illegible]7	[illegible].9[illegible]	17.[illegible]0

E-Estimated NR-No Record

TABLE 274

DAILY MEAN GAGE HEIGHT
FEATHER RIVER NEAR GRIDLEY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	76.75	NR	77.28	81.74	77.77	78.86	77.60	77.55	17	77.87	78.51	77.36	78.98	79.21	78.15	77.80E	75.97
2	76.82	NR	77.24	80.04	77.65	78.92	77.81	77.68	18	78.03	78.84	77.38	78.63	78.90	78.25	77.90E	75.43
3	76.82	NR	77.25	80.09	77.57	79.16	77.58	77.61	19	78.27	78.51	77.43	78.43	78.62	78.04	78.09E	75.31
4	76.79	NR	77.36	79.30	77.75	79.61	77.46	77.44	20	78.02	78.34	77.36	78.33	78.90	77.66	78.04	75.66
5	76.54	NR	77.38	78.70	77.61	79.70	77.34	77.20	21	77.92	78.24	77.27	78.31	78.89	77.56	77.94E	75.37
6	76.53	NR	77.39	78.46	77.85	79.35	77.40	77.15	22	77.70	78.22	77.16	78.12	78.80	77.94	77.83E	75.29
7	76.53	NR	77.36	78.39	77.77	79.18	77.49	76.66	23	NR	78.17	77.19	78.10	79.52	77.79	77.66	75.34
8	76.78	NR	77.34	78.25	77.71	78.93	77.26	76.82	24	NR	78.16	77.20	78.01	80.00	77.53	77.57	75.27
9	77.05	NR	77.35	79.43	77.90	78.73	77.25	76.74	25	NR	78.13	77.26	77.89	80.17	77.47	77.57	75.28
10	77.04	77.92	77.46	81.66	77.92	78.67	77.80	76.36	26	NR	78.10	77.36	77.82	79.64	77.42	77.51	75.43E
11	77.09	77.91	77.44	80.91	77.87	78.46	78.01	75.97	27	NR	78.03	77.36	77.85	79.52	77.38	77.28	75.96E
12	77.36	77.91	77.39	80.76	77.80	78.43	77.95	75.98	28	NR	77.76	77.33	77.78	79.42	77.35	77.11	76.10E
13	77.70	77.90	77.38	79.69	77.78	78.53	77.86	76.54	29	NR	77.58	77.29		79.07	77.40	77.06	76.13E
14	78.00	77.89	77.37	79.24	77.81	78.17	77.82	76.49	30	NR	77.52	77.87		78.95	77.56	77.05	76.21E
15	78.01	77.89	77.34	79.07	78.99	78.11	77.64	76.29	31		77.34	80.52		78.88		77.38	
16	77.92	77.95	77.35	79.19	79.22	78.00	77.80E	76.06									

Crest Stages:								
	Date	12-2-61 E	1-31-61	2-3-61	2-10-61	2-11-61	3-16-61	3-[illegible]-61	4-5-61
	Time		2215	0315	0145	1845	0600	0745	745
	Stage	80.27	83.74	80.57	82.69	81.50	79.67	80.49	79.98

E - Estimated NR - No Record

TABLE 275

DAILY MEAN GAGE HEIGHT
FEATHER RIVER AT YUBA CITY

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	39.93	42.27	40.97	48.88	42.10	44.50	42.22	41.81	17	41.93	42.67	40.94	44.84	45.54	42.99	42.89	39.91
2	39.91	44.80	40.92	46.39	42.01	44.55	42.53	42.35	18	41.98	43.77	40.94	44.15	45.28	43.25	42.90	39.77
3	39.90	44.89	40.88	46.49	41.88	44.92	42.35	42.35	19	42.77	43.34	41.02	43.74	44.39	43.04	43.09	39.50
4	39.91	43.41	41.01	45.25	41.95	45.64	42.06	42.24	20	42.39	42.95	40.97	43.38	44.42	42.38	43.29	39.42
5	39.80	42.64	40.99	44.13	41.93	46.04	42.02	41.95	21	42.07	42.69	40.91	43.26	44.81	42.00	43.22	39.48
6	39.66	42.32	41.03	43.43	42.09	45.55	41.86	41.60	22	41.79	42.54	40.74	43.14	44.50	42.47	43.00	39.34
7	39.70	42.08	41.02	43.40	42.22	45.12	42.19	41.20	23	41.46	42.45	40.62	42.73	45.10	42.65	42.74	39.26
8	39.77	41.97	41.02	43.06	42.11	44.79	41.96	40.73	24	41.40	42.40	40.80	42.71	46.29	42.32	42.55	39.25
9	40.10	41.93	41.05	43.67	42.29	44.35	41.79	40.78	25	41.58	42.35	40.64	42.52	47.03	41.97	42.32	39.23
10	40.08	41.95	41.21	49.38	42.57	44.18	42.06	40.62	26	43.85	42.30	41.10	42.37	46.13	41.82	42.21	39.25
11	40.09	41.98	41.29	48.23	42.46	43.87	43.27	40.28	27	43.83	42.26	40.92	42.23	45.83	41.82	42.11	39.33
12	40.43	41.98	41.17	48.35	42.38	43.66	43.31	40.07	28	42.89	41.92	41.10	42.26	45.83	41.78	41.56	39.60
13	41.22	41.95	41.10	46.44	42.25	43.93	43.07	40.10	29	42.40	41.50	40.87		45.11	41.86	41.41	39.62
14	42.17	41.93	41.01	45.27	42.27	43.43	42.95	40.33	30	42.20	41.36	41.78		44.79	42.08	41.35	39.60
15	42.29	41.93	40.94	44.75	44.13	43.10	42.71	40.19	31		41.14	44.21		44.59		41.52	
16	42.11	41.98	40.92	45.16	45.79	42.90	42.82	40.06									

Crest Stages:								
	Date	2-1-61	2-3-61	2-10-61	2-12-61	3-16-61	3-17-61	3-25-61	4-5-61
	Time	0845	1045	1515	0330	0100	1945	0845	1445
	Stage	49.46	46.82	50.04	48.95	46.06	46.17	47.39	46.19

E - Estimated NR - No Record

TABLE 27[illegible]

DAILY MEAN GAGE HEIGHT
YUBA RIVER AT ENGLEBRIGHT DAM

In feet

Date	19[illegible]		1[illegible]						Date	1[illegible]		1[illegible]					
	Nov	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1				NF	27.39	28.31	[illegible].15	27.8[illegible]	17				28.[illegible]	28.38	28.02	28.24	27.34
2				NF	27.37	28.38	28.16	27.3[illegible]	18				27.92	[illegible].21	28.08	28.[illegible]	27.28
3				NF	27.38	28.61	28.[illegible]8	28.0[illegible]	19				27.81	28.07	28.00	28.[illegible]4	27.24
4				NF	27.38	[illegible].79	28.07	27.94	20				27.74	28.25	27.88	28.45	27.17
5				NF	27.37	28.70	28.02	27.[illegible]	21				27.68	28.34	27.87	28.37	27.10
6	N	N	N	27.43	27.47	28.52	28.01	27.81	22	N	N	N	27.65	28.26	28.01	28.34	27.02
7	O	O	O	27.70	27.45	28.41	28.07	27.77	23	O	O	O	27.63	28.48	27.99	28.32	26.94
8	F	F	F	27.67	27.40	28.27	27.99	27.73	24	F	F	F	27.59	28.64	27.91	28.25	26.91
9	L	L	L	28.16	27.59	28.19	27.98	27.68	25	L	L	L	27.55	28.81	27.84	28.15	NF
10	O	O	O	29.13	27.63	28.15	28.20	27.64	26	O	O	O	27.50	28.57	27.86	28.15	NF
11	W	W	W	28.95	27.59	28.08	28.43	27.5[illegible]	27	W	W	W	27.47	28.67	27.89	28.07	NF
12				28.82	27.68	28.09	28.38	27.55	28				27.43	28.62	27.94	27.95	NF
13				28.37	27.65	28.12	28.32	27.50	29					28.42	28.02	27.87	NF
14				28.14	27.64	28.00	28.28	27.47	30					28.33	28.12	27.83	NF
15				28.10	28.28	27.94	28.26	27.42	31					28.30		27.85	
16				28.17	28.34	27.93	28.25	27.38									

Crest Stages: Date	2-10-61	2-11-61	3-15-61	3-17-61	3-20-61	3-24-61	4-4-61
Time	0600	2000	1900	0745	2000	2200	1230
Stage	29.37	29.19	28.48	28.46	28.39	29.02	28.93

E - Estimated NR - No Record
NF - No Flow

TABLE 277

DAILY MEAN GAGE HEIGHT
YUBA RIVER NEAR MARYSVILLE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	60.62	62.28	62.13	62.84	62.55	63.42	NR	62.70	17	61.55	62.37	62.29	63.25	63.97		63.09	61.91
2	60.54	62.58	62.13	62.74	62.52	63.50	NR	62.80	18	61.69	62.33	62.31	63.13	63.52		63.10	61.82
3	60.57	62.46	62.13	62.73	62.52	63.77	NR	62.85	19	62.13	62.23	62.31	63.00	63.26		63.18	61.75
4	60.58	62.34	62.13	62.53	62.52	64.03	62.94	62.80	20	62.10	62.21	62.31	62.92	63.43		63.25	61.67
5	60.85	62.27	62.12	62.45	62.51	64.02	NR	62.72	21	62.08	62.17	62.31	62.86	63.56		63.26	61.62
6	60.89	62.20	62.09	62.53	62.58	63.74	NR	62.70	22	62.03	62.17	62.30	62.82	63.42	N	63.20	61.57
7	60.91	62.18	62.17	62.79	62.59	63.52	NR	62.59	23	62.20	62.16	62.30	62.78	63.77	O	63.18	61.51
8	61.10	62.17	62.27	62.75	62.55	63.40	NR	62.54	24	62.22	62.16	62.30	62.73	63.90	R	63.11	61.29
9	61.08	62.16	62.27	63.36	62.68	63.27	NR	62.49	25	62.24	62.17	62.31	62.68	64.50	E	63.03	61.25
10	61.10	62.17	62.30	64.92	62.71	63.20	62.95	62.40	26	63.04	62.16	62.33	62.65	63.96	C	62.98	61.17
11	61.20	62.17	62.30	64.70	62.66	63.13	63.33	62.35	27	62.58	62.15	62.32	62.62	64.00	O	62.95	61.05
12	61.64	62.17	62.30	64.57	62.70	NR	63.30	62.30	28	62.37	62.14	62.31	62.58	64.02	R	62.80	60.97
13	61.87	62.15	62.30	63.78	62.71	NR	63.20	62.20	29	62.31	62.14	62.36		63.70	D	62.72	60.85
14	62.04	62.15	62.30	63.42	62.70	NR	63.16	62.12	30	62.28	62.13	62.47		63.50		62.66	60.82
15	61.77	62.15	62.30	63.32	63.78	NR	63.14	62.05	31		62.13	62.98		63.43		62.67	
16	61.64	62.17	62.30	63.48	63.70	NR	63.12	61.98									

Crest Stages: Date	11-26-60	1-31-61	2-10-61	2-11-61	3-15-61	3-17-61	3-25-61	4-4-61
Time	1045	1930	0700	2000	1200	0930	[illegible]00	1845
Stage	63.64	63.69	65.20	65.27	64.47	64.[illegible]7	64.96	64.18

E - Estimated NR - No Record

TABLE 278

DAILY MEAN GAGE HEIGHTS
FEATHER RIVER BELOW SHANGHAI BEND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	33.73	36.31	35.01	43.38	NR	39.00	36.57	36.03	17	35.64	36.55	35.00	39.33	40.21	37.18	37.22	33.86
2	33.68	NR	34.96	40.94	NR	39.06	36.82	36.50	18	35.68	37.67	35.01	38.55	40.00	37.48	37.22	33.69
3	33.66	NR	34.92	40.74	NR	39.50	36.67	36.57	19	36.41	37.34	35.09	NR	38.87	37.38	37.43	33.53
4	33.65	NR	35.00	NR	NR	40.35	36.39	36.44	20	36.21	36.93	35.07	NR	38.85	36.69	37.69	NR
5	33.60	NR	34.99	NR	NR	40.83	36.33	36.05	21	35.97E	36.67	34.97	NR	39.42	36.20	37.62	NR
6	33.46	36.38	35.02	NR	NR	40.26	36.15	35.74	22	35.76E	36.53	34.82	NR	39.05	36.52	37.38	NR
7	33.48	36.14	35.02	NR	NR	39.72	36.46	35.44	23	35.54	36.44	34.72	NR	39.57	36.94	37.15	NR
8	33.53	36.03	35.09	NR	NR	39.31	36.29	34.95	24	35.49	36.37	34.86	NR	41.03	36.68	36.94	NR
9	33.85	35.97	35.10	NR	NR	38.79	36.10	34.91	25	35.63	36.33	34.73	NR	41.99	36.19	36.65	NR
10	33.87	35.96	35.24	NR	NR	38.59	36.36	34.70	26	37.65	36.27	35.15	NR	41.03	36.01	36.53	NR
11	33.88	36.00	35.35	43.46	36.61	38.25	37.68	34.34	27	37.92	36.24	35.01	NR	40.64	36.00	36.41	NR
12	34.25	35.99	35.25	43.64	36.55	37.96	37.74	34.06	28	36.89	35.95	35.19	NR	40.68	36.00	35.88	NR
13	35.01	35.96	35.18	41.47	36.47	38.25	37.49	34.01	29	36.44	35.60	35.00		39.86	36.12	35.65	33.02
14	35.84	35.94	35.10	39.94	36.44	37.82	37.32	34.20	30	36.23	35.43	35.69		39.37	36.36	35.56E	33.00
15	35.94	35.94	35.03	39.23	38.27	37.40	37.14	34.02	31		35.22	37.72		39.11		35.74E	
16	35.81	35.98	35.01	39.71	40.46	37.14	37.14	33.86									

Crest Stages:								
	Date	2-1-61	2-3-61	2-10-61	2-12-61	3-16-61	3-17-61	3-25-61	4-5-61
	Time	1215	1215	1430 E	0500	0300	2115	1130	1715
	Stage	43.92	41.07	45.21 E	44.18	40.73	40.90	42.43	40.95

E - Estimated NR - No Record

TABLE 279

DAILY MEAN GAGE HEIGHT
BEAR RIVER NEAR WHEATLAND

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	0.28	1.57	1.43	2.38	1.00	2.07	0.70	0.60	17	1.06	1.32	0.90	1.54	.95	1.1	.77	.43
2	0.33	1.98	1.41	2.04	0.97	1.72	0.73	0.62	18	1.07	1.36	0.9	1.40	1.76	1.07	.6	.48
3	0.23	1.78	1.40	2.05	1.01	1.40	0.76	0.99	19	1.17	1.23	0.91	1.34	.77	.91	.5	.5
4	0.31	1.64	1.26	1.64	1.11	1.36	0.73	1.17	20	1.13	1.20	0.8	1.25	1.61	0.75	.71	.54
5	0.31	1.58	1.19	1.44	1.09	1.31	0.85	1.12	21	1.05	1.20	0.87	1.25	1.52	.74	.6	0.43
6	0.29	1.67	1.13	1.35	1.21	1.24	0.86	1.18	22	1.02	1.22	0.87	1.22	1.38	0.91	0.88	0.48
7	0.40	1.75	1.09	1.38	1.19	1.57	0.85	0.88	23	0.97	1.22	0.87	1.17	1.62	1.42	1.07	0.47
8	0.40	1.79	1.04	1.38	1.09	1.47	0.77	0.65	24	0.94	1.28	0.87	1.16	1.72	1.40	1.10	0.39
9	0.40	1.77	1.05	2.01	0.71	1.46	0.79	0.57	25	0.96	1.29	0.88	1.15	3.06	1.22	1.05	0.54
10	0.41	1.77	1.05	2.59	0.56	1.44	0.94	0.51	26	2.55	1.29	0.96	1.13	2.83	1.11	0.90	0.45
11	0.46	1.7	0.97	2.66	0.50	1.42	0.82	0.58	27	1.93	1.28	1.11	1.09	2.77	0.89	0.81	0.44
12	1.00	1.75	0.94	2.61	0.44	1.36	0.78	0.50	28	1.65	1.34	1.06	1.02	2.81	0.71	0.86	0.43
13	1.26	1.70	0.92	2.17	0.41	1.48	1.00	0.53	29	1.57	1.35	1.05		2.54	0.76	0.70	0.53
14	1.54	1.46	0.90	2.18	0.44	1.38	0.84	0.55	30	1.53	1.35	1.41		2.36	0.81	0.58	0.55
15	1.27	1.4	0.89	2.16	0.66	1.40	0.69	0.56	31		1.41	2.61		2.23		0.59	
16	1.15	1.43	0.89	2.02	0.48	1.47	0.56	0.48									

Crest Stages:							
	Date	11-26-60	1-31-61	2-2-61	-9-61	2-11-61	3-26-61
	Time	0945	1700	2100	2315	1615	1100
	Stage	3.82	4.30	2.71	3.83	3.94	3.40

E - Estimated NR - No Record

TABLE 28[illegible]

DAILY MEAN GAGE HEIGHT
DRY CREEK NEAR WHEATLAND

In feet

Date	1960		1961						Date	[illegible]		[illegible]					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	NF	3.15	3.14	4.50	3.30	3.56	3.03	NF	17	3.15	3.24	[illegible]	[illegible]	4.40	[illegible]	NF	NF
2	NF	3.38	3.13	4.51	3.30	3.51	3.12	NF	18	3.17	3.40	[illegible]	[illegible]	[illegible]	[illegible]	NF	NF
3	NF	3.36	3.13	4.22	3.30	[illegible]	3.14	2.70	19	3.32	3.30	3.14	[illegible]	[illegible]	3.21	NF	NF
4	NF	3.22	3.13	3.76	3.30	3.45	[illegible]	3.00	20	3.26	3.25	[illegible]	[illegible]	[illegible]	[illegible]	NF	NF
5	NF	3.16	[illegible]	3.60	3.28	3.40	[illegible]	2.96	21	3.22	[illegible]	3.15	[illegible]	[illegible]	[illegible]	NF	NF
6	NF	3.14	3.13	3.56	3.29	3.38	3.12	2.97	22	3.18	3.23	[illegible]	3.50	3.58	3.31	NF	NF
7	NF	3.14	3.14	[illegible]	[illegible]	3.36	3.13	3.03	23	3.15	3.20	3.15	3.44	[illegible]	3.40	0.88	NF
8	NF	3.15	3.14	3.48	3.27	3.32	3.15	3.00	24	3.11	3.19	[illegible]	3.40	4.10	[illegible]	3.11	NF
9	NF	[illegible]	3.14	4.43	3.41	3.30	3.05	2.97	25	3.13	3.18	[illegible]	3.38	4.75	3.15	[illegible]	NF
10	NF	3.15	3.14	4.61	3.45	3.28	NF	2.96	26	4.08	3.17	3.20	3.37	4.15	3.10	2.97	NF
11	NF	3.14	3.14	4.62	3.35	3.27	NF	NF	27	3.69	3.17	3.25	3.34	4.06	3.07	2.96	NF
12	NF	3.16	3.14	4.35	3.30	3.27	NF	NF	28	3.35	3.16	3.24	3.32	[illegible]	[illegible]	NF	2.96
13	2.63	3.16	3.13	3.89	[illegible]	3.35	NF	NF	29	3.22	3.15	3.36		[illegible]	[illegible]	NF	2.99
14	3.45	3.14	3.13	3.77	3.27	3.32	NF	NF	30	3.15	3.15	3.65		[illegible]	3.02	NF	2.99
15	3.30	3.14	[illegible]	3.95	4.56	3.28	NF	NF	31		3.14	4.99		[illegible]			
16	3.21	3.14	3.14	4.04	3.95	3.30	NF	NF									

Crest Stages:	Date	11-26-60	1-31-61	2-2-61	2-9-61	2-10-61	2-11-61	3-15-61	[illegible]-24-61
	Time	1315	1730	1300	1800	0030	1700	1400	2315
	Stage	4.98	6.58	5.09	5.42	5.41	5.30	5.17	5.69

E-Estimated NR-No Record
NF-NO FLOW

TABLE 281

DAILY MEAN GAGE HEIGHT
FEATHER RIVER AT NICOLAUS

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	21.50	23.91	23.27	31.80	24.28	27.39	24.41	[illegible]3.69	17	23.32	23.98	22.91	30.98	28.49	25.09	25.09	21.97
2	21.45	25.19	23.20	31.12	24.18	27.29	24.64	24.28	18	23.29	25.13	22.90	[illegible]0.30	29.11	25.37	25.09	21.83
3	21.45	27.67	23.15	30.88	24.00	27.49	24.68	24.49	19	23.70	25.31	22.88	29.30	28.40	25.39	25.21	21.49
4	21.43	27.04	23.09	30.87	23.92	28.29	24.32	24.39	20	23.98	24.80	22.89	28.27	27.97	24.80	25.52	21.28
5	21.43	25.98	23.07	30.83	23.98	28.99	24.26	24.09	21	23.60	24.54	22.88	27.36	28.41	24.22	25.62	21.22
6	21.27	24.80	23.02	29.92	23.95	28.62	23.99	23.72	22	23.42	24.31	22.84	26.71	28.15	24.21	25.31	21.20
7	21.24	24.19	23.00	28.35	24.28	28.00	24.22	23.54	23	23.32	24.22	22.80	25.99	28.07	24.90	25.11	21.07
8	21.25	23.91	22.99	26.74	24.12	27.60	24.22	23.28	24	23.23	24.17	22.77	25.60	29.45	24.78	24.91	21.00
9	21.42	23.80	22.98	25.85	24.11	26.98	23.93	23.00	25	23.20	24.12	22.74	25.15	30.70	24.26	24.61	20.91
10	21.53	23.78	22.97	31.52	24.58	26.70	24.00	22.75	26	24.63	24.08	22.79	24.82	30.52	24.02	24.45	20.88
11	21.52	23.82	23.00	32.98	24.57	26.41	25.28	22.50	27	26.33	24.01	22.86	24.56	29.87	23.98	24.39	20.84
12	21.69	23.82	23.03	33.55	24.43	26.01	25.63	22.30	28	25.01	23.87	22.87	24.49	29.75	23.98	23.90	20.90
13	22.16	23.80	23.03	32.82	24.37	26.20	25.43	22.32	29	24.57	23.50	22.91		29.07	24.00	23.60	21.10
14	22.99	23.72	23.01	32.10	24.33	26.07	25.26	22.35	30	23.99	23.36	23.11		28.17	24.20	23.55	21.16
15	23.51	23.70	22.98	31.60	25.30	25.47	25.11	22.24	31		23.31	24.76		27.66		23.58	
16	23.40	23.72	22.94	31.39	28.55	25.22	24.92	22.12									

Crest Stages:	Date	12-3-60	2-1-61	2-10-61	2-12-61	[illegible]-16-61	[illegible]-18-61	[illegible]-25-61	4-5-61
	Time	0900	2000	2330	1200	1000	0400	1800	2300
	Stage	27.81	32.49	33.65	33.73	28.68	29.33	[illegible]1.35	29.08

E-Estimated NR-No Record

TABLE 282

DAILY MEAN GAGE HEIGHT
NATOMAS CROSS CANAL AT HEAD

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NR	20.65	19.40	26.75	21.02	21.83	NR		17		19.88	19.08	29.24	25.03	18.26		
2	NR	21.22	19.44	27.35	20.80	21.52	NR		18		19.91	19.04	28.70	25.97	18.37		
3	NR	24.09E	19.57	28.10	20.50	21.31	NR		19	20.50	20.24	19.05	27.76	25.88	NR		
4	NR	24.84	19.69	28.87	20.17	21.35	18.30		20	20.68	20.66	18.99	26.67	25.55	NR		
5	NR	23.90	19.85	29.44	20.02	21.54	18.12		21	19.99	20.04	19.09	25.59	25.53	18.71		
6	NR	22.08	19.75	28.68	19.97	21.50	NR	NO	22	19.75	19.71	18.98	24.75	25.37	NR	NO	NO
7	NR	20.86	19.54	26.78	20.08	21.03	NR		23	19.59	19.68	18.95	23.87	24.97	NR		
8	NR	20.19	19.37	24.76	19.98	20.51	NR	RECORD	24	19.55	19.68	19.01	23.12	25.22	19.81	RECORD	RECORD
9	NR	19.99	19.38	23.13	19.93	19.94	NR		25	19.43	19.77	19.01	22.47	25.71	19.44		
10	18.10	19.92	19.38	25.36	20.36	19.40	NR		26	20.20	19.73	19.42	21.97	26.26	18.53		
11	18.21	19.89	19.33	28.02	20.78	19.20	NR		27	24.07E	19.65	19.98	21.55	26.13	NR		
12	18.41	20.01	19.25	29.50	20.60	18.90	NR		28	22.77	19.61	20.31	21.26	25.78	NR		
13	19.47	19.91	19.19	30.28	20.35	18.63	NR		29	21.55	19.46	20.24		25.22	NR		
14	20.97	19.87	19.18	30.29	20.16	18.80	NR		30	20.88	19.39	NR		23.96	NR		
15	21.62	19.85	19.12	29.99	20.65	18.72	NR		31		19.38	NR		22.73			
16	20.78	19.79	19.10	29.61	24.54	18.33	NR										

Crest Stages:							
	Date	11-27-60	12-4-60	2-5-61	2-13-61	2-14-61	3-18-61	3-26-61
	Time	1015	1015	1415	1315	0230	1115	1100
	Stage	24.68 E	24.91	29.54	30.34	30.36	26.03	26.33

E-Estimated NR-No Record

TABLE 283

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VERONA
In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	12.14	15.52	13.56	24.32	20.56	21.43	13.25	14.51	17	14.99	14.12	13.59	28.88	24.17	15.27	15.50	12.72
2	12.10	17.08	13.42	26.77	20.33	21.01	13.64	15.15	18	14.27	15.65	13.57	28.39	25.27	15.01	15.56	11.96
3	12.13	23.27	13.38	27.62	19.97	20.73	14.17	15.60	19	14.08	18.72	13.52	27.50	25.45	14.65	15.65	11.75
4	12.18	24.34	13.49	28.50	19.44	20.76	14.23	16.06	20	14.51	19.91	13.53	26.39	25.17	14.18	15.90	11.61
5	12.19	23.41	13.60	29.05	19.22	21.16	14.14	15.90	21	14.36	18.49	13.42	25.25	25.16	13.63	16.22	11.51
6	12.21	21.52	13.62	28.30	19.03	21.16	13.84	15.43	22	14.02	17.75	13.44	24.34	24.99	13.42	16.07	11.45
7	12.23	19.88	13.56	26.37	19.16	20.70	13.80	15.00	23	13.68	16.82	13.23	23.51	24.60	13.97	15.85	11.52
8	12.29	18.39	13.55	24.24	19.18	20.13	14.15	14.48	24	13.43	16.15	13.22	22.79	24.81	14.29	15.65	11.60
9	12.33	17.08	13.57	22.58	19.07	19.35	14.11	13.98	25	13.33	15.60	13.28	22.11	25.30	14.23	15.36	11.81
10	12.49	16.21	13.70	24.18	19.50	18.68	14.04	13.78	26	13.90	15.18	13.43	21.58	25.86	14.02	15.22	12.03
11	12.52	15.55	13.88	27.61	20.16	18.01	14.67	13.54	27	18.12	14.91	13.83	21.13	25.78	13.44	15.05	12.10
12	12.62	15.00	13.93	29.11	20.07	17.30	15.53	13.18	28	20.04	14.62	14.56	20.82	25.35	13.04	14.70	12.04
13	13.03	14.68	13.90	29.97	19.76	17.08	15.75	12.78	29	18.30	14.20	15.10		24.83	12.83	14.39	11.95
14	13.77	14.38	13.8	30.00	19.56	16.99	15.97	12.68	30	16.57	13.87	15.20		23.55	12.90	14.08	12.16
15	15.20	14.15	13.72	29.62	19.85	16.25	15.60	12.50	31		13.73	18.45		22.30		14.09	
16	15.85	14.03	13.64	29.24	22.34	15.70	15.32	12.25									

Crest Stages							
	Date	11-16-60	11-28-60	12-4-60	12-20-60	2-5-61	2-14-61	3-26-61
	Time	0700	1600	1200	0700	1500	[illegible]	2400
	Stage	15.98	29.33	24.42	20.07	29.16	[illegible]	25.90

E-Estimated NR-No Record

TABLE 284

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT FRICHARD LAKE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec	Jan	Feb	Mar	Apr.	May	June
1						NR	11.9	13.[illegible]	17						14.[illegible]	14.4	10.9
2						NR	12.3	14.0	18						1[illegible].6	14.4	10.7
3						NR	12.8	14.6	19						1[illegible].5	14.5	10.5
4						1[illegible].5	12.9	14.8	20						1[illegible].0	14.7	10.[illegible]
5						NR	12.8	15.0	21						12.2	14.9	10.2
6	N	N	N	N	N	NR	12.6	14.6	22	N	N	N	N	N	12.9	15.0	10.3
7	O	O	O	O	O	NR	12.5	14.1	23	O	O	O	O	O	12.9	14.7	10.5
8	R	R	R	R	R	NR	12.8	13.9	24	R	R	R	R	R	12.9	14.6	10.5
9	E	E	E	E	E	NR	12.8	12.7	25	E	E	E	E	E	12.9	14.4	10.6
10	C	C	C	C	C	NR	12.8	12.6	26	C	C	C	C	C	12.9	14.1	11.0
11	O	O	O	O	O	16.8	13.1	12.5	27	O	O	O	O	O	12.2	14.0	11.0
12	R	R	R	R	R	16.2	14.1	12.0	28	R	R	R	R	R	11.7	14.0	10.8
13	D	D	D	D	D	16.2	14.6	11.7	29	D	D	D	D	D	11.5	13.6	10.8
14						15.6	14.7	11.6	30						11.5	12.8	10.8
15						14.0	14.5	11.0	31							12.8	
16						14.0	14.0	11.0									

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
* Individual daily staff gage readings.

TABLE 285

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8									24								
9									25								
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
Station discontinued June 7, 1961.
Note: Gage height did not exceed crest of weir (25.0 feet) during entire year.

TABLE 286

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT SECOND BANNON SLOUGH

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	7.	9.7	8.1	14.	12.0	12.9	7.2	8.4	17	8.4	8.6	7.8	19.4	14.8	9.0	8.8	6.8
2	6.7	9.4	8.0	17.0	12.0	12.4	7.3	8.6	18	8.6	8.8	7.8	18.9	15.2	8.7	8.8	6.8
3	6.6	12.6	7.7	17.6	11.8	12.3	7.7	9.2	19	8.4	10.4	7.6	18.2	15.4	8.6	9.2	6.8
4	6.6	13.0	7.8	18.4	11.4	12.2	7.6	9.4	20	7.9A	11.9	7.5	17.0	15.7	7.9	8.8	6.2
5	6.6	14.5	7.7	18.9	11.5	12.5	7.6	9.5	21	7.6	11.5	7.4	16.3	15.6	7.6	8.7	6.6
6	6.6	13.2	7.5	19.0	11.4	12.3	7.6	9.0	22	7.6	10.7	7.4	15.4	15.5	7.8	9.1	7.0
7	6.4	12.0	7.5	17.4	11.1	12.5	7.6	8.6	23	7.2	10.0	7.5	14.6	15.2	7.8	9.0	7.2
8	7.4	11.0	7.4	15.6	11.0	11.9	7.6	8.7	24	7.2	9.6	7.5	13.9	15.3	7.8	8.9	7.2
9	7.6	9.8	7.6	14.1	11.0	11.6	7.8	8.3	25	7.5	9.4	7.3	13.5	15.7	7.8	8.6	7.2
10	7.3	9.4	7.7	14.2	11.1	11.0	8.0	8.1	26	7.7	9.1	8.2	13.0	16.3	7.8	8.4	8.0
11	7.0	9.5	7.8	17.0	11.2	10.6	8.0	8.0	27	9.7	8.9	8.0	12.7	16.3	7.6	8.4	8.4
12	6.6	8.8	8.2	19.0	11.4	10.5	8.8	8.0	28	11.4	8.8	8.2	12.2	16.0	7.1	8.4	7.8
13	6.7	8.6	8.2	20.0	11.6	10.1	8.8	7.5	29	10.9	8.6	8.5		15.6	7.4	8.4	7.6
14	7.8	8.6	8.0	20.0	11.7	10.0	9.2	7.7	30	9.9	8.4	9.2		14.6	7.6	8.0	7.8
15	7.8	8.8	8.0	20.0	12.2	9.0	8.8	7.1	31		8.4	10.3		13.6		8.2	
16	8.2	8.6	8.0	19.6	13.2	9.4	9.2	7.1									

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
*-Average of two daily staff gage readings.
A-Individual staff gage readings.

TABLE 287

DAILY MEAN HALF TIDE
SACRAMENTO RIVER AT SACRAMENTO

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	12.93	15.69	14.41	19.91A	18.02	18.72	13.43	14.49	17	14.50	14.55	14.13	25.02A	20.50A	14.95	14.91	13.60
2	13.03	15.88	14.23	22.64A	17.97	18.28	13.55	14.79	18	14.18	15.05	14.17	24.60A	21.28A	14.87	15.01	13.42
3	13.15	19.27A	14.09	23.42A	17.78	18.06	14.03	15.05	19	13.85	16.73	14.04	23.84A	21.57A	14.44	15.17	12.97
4	13.02	20.68A	14.06	24.13A	17.43	18.11	13.96	15.35	20	14.13	17.95	14.03	22.86A	21.39A	14.13	14.98	12.89
5	13.08	20.42A	14.11	24.73A	17.31	18.28	13.95	15.43	21	14.20	17.60	13.82	21.89A	21.27A	13.78	14.93	12.94
6	13.23	19.13A	13.98	24.71A	17.23	18.61	13.86	15.05	22	13.95	16.90	13.75	21.12A	21.23A	13.72	15.11	13.54
7	13.22	17.99	13.96	23.36A	17.06	18.39	13.52	14.66	23	13.75	16.19	13.65	20.44A	20.97A	13.65	14.80	13.36
8	13.10	17.09	13.96	21.55A	17.07	17.85	13.57	14.49	24	13.71	15.85	13.59	19.84	20.99A	13.72	14.60	13.31
9	13.00	16.16	13.97	20.04A	17.12	17.43	13.77	14.13	25	13.95	15.45	13.68	19.37	21.33A	13.75	14.64	13.73
10	12.95	15.67	13.98	20.04A	17.20	17.07	13.78	14.06	26	14.18	15.06	14.03	18.91	21.89A	13.80	14.45	14.08
11	13.08	15.31	14.09	22.90A	17.76	16.63	13.87	14.10	27	15.73	14.97	14.25	18.56	21.97A	13.51	14.37	14.10
12	13.43	14.87	14.23	24.50A	17.84	16.42	14.39	13.97	28	17.43	14.78	14.32	18.17	21.66A	13.17	14.45	13.94
13	13.77	14.67	14.28	25.51A	17.68	15.77	14.70	13.64	29	16.93	14.71	14.83		21.34A	13.25	14.41	13.75
14	13.79	14.55	14.22	25.80A	17.64	15.82	14.79	13.46	30	16.02	14.55	15.06		20.54A	13.15	14.19	13.58
15	14.03	14.59	14.17	25.68A	17.98	15.44	14.87	13.48	31		14.49	16.94		19.55A		14.19	
16	14.37	14.59	14.12	25.35A	19.01	15.13	14.77	13.50									

Crest	Date	-4-	-61	-14-61	5-13-61	-25-61
Stages	Time	1915	21	1945	1200	
	Stage	20.7	4.47	.89	21.7	.11

E-Estimated NR-No Record
A-Daily mean gage height.

TABLE 288

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT FAIR OAKS

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	0.93	1.78	2.5	1.41	0.82	1.27	1.35	1.79	17	1.30	2.19	2.52	1.[illegible]	[illegible]	1.30	[illegible]	1.75
2	1.20	1.78	2.54	1.41	0.82	1.28	1.36	1.77	18	1.31	2.20	2.55	1.13	[illegible]	1.35	1.35	1.75
3	1.26	1.78	2.54	1.40	0.83	1.27	1.36	1.77	19	1.31	2.21	2.54	[illegible]	[illegible]	1.37	1.35	1.83
4	1.25	1.78	2.54	1.40	0.83	1.27	1.36	1.76	20	1.32	2.02	2.50	1.00	[illegible]	1.37	1.33	2.23
5	1.25	1.78	2.54	1.43	0.82	1.28	1.35	1.7[illegible]	21	1.32	2.50	1.79	[illegible]	[illegible]	1.44	1.35	2.58
6	1.31	1.77	2.54	1.45	0.78	1.28	1.35	1.77	22	1.33	2.55	1.78	0.98	[illegible]	1.33	1.36	2.93
7	1.30	1.77	2.54	1.45	0.82	1.28	1.37	1.77	23	1.33	[illegible]	1.79	0.98	[illegible]	1.44	1.33	3.15
8	1.30	1.77	2.56	1.45	0.83	1.27	1.36	1.77	24	1.33	2.55	1.78	0.98	[illegible]	1.35	1.33	3.15
9	1.30	1.76	2.54	1.42	0.83	1.27	1.35	1.76	25	1.34	2.55	1.79	0.97	1.17	1.35	1.33	3.10
10	1.29	1.78	2.54	1.30	0.83	1.27	1.35	1.75	26	1.35	2.55	1.7[illegible]	0.9[illegible]	1.26	1.34	1.33	3.19
11	1.29	2.19	2.52	1.30	0.92	1.27	1.35	1.76	27	1.35	2.55	1.77	0.87	1.26	1.34	1.33	3.08
12	1.29	2.19	2.51	1.30	0.94	1.27	1.35	1.78	28	1.35	2.54	1.76	0.94	1.27	1.34	1.32	2.98
13	1.29	2.21	2.53	1.30	0.94	1.27	1.34	1.78	29	1.36	2.55	1.79		1.27	1.33	1.33	2.98
14	1.29	2.23	2.55	1.30	0.94	1.27	1.34	1.76	30	1.37	2.56	1.76		1.26	1.33	1.33	2.98
15	1.30	[illegible].25	2.54	1.30	0.95	1.27	1.35	1.76	31		2.56	1.74		1.26		1.32	
16	1.30	2.23	2.52	1.32	0.94	1.28	1.35	1.77									

Crest Stages:	Date	7-19-61
	Time	2130
	Stage	3.83

E-Estimated NR-No Record

TABLE 289

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT SACRAMENTO

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	17.21	17.93	18.74	17.80	17.22	17.58	17.60	17.91	17	17.64	18.37	18.72	18.52	17.33	17.59	17.63	17.94
2	17.54	18.00	18.73	17.75	17.17	17.58	17.63	17.98	18	17.66	18.37	18.74	18.16	17.32	17.64	17.62	17.95
3	17.65	17.99	18.73	17.77	17.19	17.58	17.64	17.97	19	17.64	18.38	18.74	17.56	17.31	17.67	17.60	17.97
4	17.62	17.98	18.73	17.96	17.18	17.58	17.64	17.98	20	17.64	18.20	18.73	17.34	17.31	17.67	17.62	18.28
5	17.62	17.98	18.73	18.34	17.18	17.58	17.61	17.98	21	17.65	18.56	18.18	17.33	17.30	17.64	17.61	18.61
6	17.65	17.99	18.74	18.34	17.15	17.58	17.60	17.99	22	17.62	18.73	18.05	17.32	17.29	17.65	17.63	18.95
7	17.67	17.98	18.75	17.80	17.16	17.59	17.64	17.98	23	17.62	18.66	18.04	17.31	17.29	17.64	17.58	19.20
8	17.64	17.99	18.75	17.72	17.19	17.57	17.64	17.98	24	17.62	18.69	18.03	17.31	17.29	17.63	17.59	19.27
9	17.65	17.98	18.76	17.72	17.20	17.56	17.62	17.99	25	17.64	18.70	18.04	17.30	17.41	17.63	17.58	19.21
10	17.65	17.99	18.74	17.63	17.21	17.57	17.64	17.98	26	17.70	18.71	18.07	17.29	17.58	17.65	17.60	19.21
11	17.65	18.30	18.73	17.67	17.24	17.58	17.63	17.98	27	17.63	18.71	18.02	17.23	17.59	17.63	17.61	19.21
12	17.66	18.37	18.70	18.21	17.31	17.57	17.64	18.00	28	17.63	18.71	18.02	17.24	17.61	17.63	17.59	19.11
13	17.68	18.38	18.73	19.02	17.31	17.58	17.60	18.01	29	17.63	18.72	18.06		17.60	17.62	17.60	19.11
14	17.65	18.41	18.75	19.25	17.30	17.57	17.60	18.00	30	17.60	18.73	18.03		17.59	17.61	17.61	19.11
15	17.64	18.41	18.75	19.12	17.37	17.57	17.63	17.98	31		18.73	18.08		17.58		17.58	
16	17.64	18.40	18.72	18.85	17.31	17.58	17.65	17.97									

Crest Stages:	Date	7-22-61
	Time	0615
	Stage	19.93

E-Estimated NR-No Record

TABLE 290

DAILY GAGE HEIGHT*
SCOTT CREEK AT UPPER LAKE

In feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				NR	5.65	5.97	7.47	7.36	7.00	5.90	4.61	1.40
2				NR	7.41	6.02	7.54	7.44	6.94	5.86	4.58	1.30
3				NR	6.89	6.04	7.54	7.45	6.95	5.80	4.49	1.30
4				NR	6.57	7.65	7.53	7.38	6.91	5.77	4.40	1.34
5				NR	6.98	9.15	7.54	7.40	6.85	5.74	4.35	1.35
6				NR	6.58	8.98	7.54	7.39	6.86	5.70	4.29	1.36
7				1.27	6.92	10.44	7.56	7.33	6.82	5.67	4.20	1.38
8				1.31	12.77	9.90	7.54	7.38	6.81	5.65	4.00	1.41
9				1.35	13.37	8.69	7.48	7.36	6.77	5.55	3.74	1.45
10				1.39	12.11	8.10	7.52	7.36	6.73	5.54	3.45	1.47
11				1.53	10.35	7.77	7.46	7.30	6.69	5.51	3.16	1.48
12			N	1.90	8.27	7.76	7.56	7.23	6.64	5.41	3.10	1.47
13		NR	O	1.86	7.50	8.01	7.51	7.26	6.62	5.36	2.96	1.48
14		NR		1.85	7.07	7.83	7.39	7.20	6.55	5.37	2.83	1.52
15		NR		1.87	6.75	7.57	7.33	7.16	6.50	5.35	2.52	1.71
16		NR	R	1.88	6.50	7.57	7.46	7.16	6.47	5.31	2.46	1.90
17		NR	E	1.88	6.33	7.50	7.43	7.01	6.44	5.28	2.45	2.07
18		NR	C	1.89	6.24	7.46	7.40	7.15	6.51	5.24	2.25	2.22
19		NR	O	1.89	6.17	7.43	7.42	7.11	6.35	5.19	2.20	2.22
20		NR	R	1.91	6.13	7.41	7.38	6.97	6.36	5.15	2.05	2.20
21		NR	D	2.07	6.08	7.41	7.29	6.97	6.29	5.11	1.90	2.23
22		NR		2.70	6.06	7.39	7.36	7.00	6.25	5.07	2.04	2.33
23		NR		3.60	6.06	7.40	7.38	7.04	6.20	4.88	1.88	2.53
24		NR		4.04	6.04	7.39	7.41	7.10	6.17	4.98	1.78	2.67
25		NR		4.92	6.05	7.39	7.37	7.10	6.13	4.83	1.71	2.81
26		NR		5.50	6.01	7.38	7.55	7.05	6.09	4.88	1.65	2.93
27		NR		5.28	6.04	7.46	7.53	7.07	6.05	4.84	1.63	3.02
28		NR		5.67	6.06	7.45	7.44	7.05	6.00	4.80	1.61	3.08
29		NR		5.33	6.04	7.46	7.46	7.01	5.99	4.77	1.58	3.15
30		NR		5.14		7.50	7.45	7.02	5.92	4.71	1.55	3.20
31				4.93		7.55		7.00		4.65	1.51	

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Gage height at 12:00 Noon.
Recorder installed November 12, 1959.

TABLE 291

DAILY GAGE HEIGHT*
SCOTT GREEK AT UPPER LAKE

In feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.29	4.30	9.38	5.03	9.03	6.58	8.06	7.90	7.36	6.31	5.06	2.70
2	3.37	4.30	8.15	4.99	9.02	6.57	8.06	7.93	7.37	6.31	5.00	2.62
3	3.45	4.32	7.23	4.95	8.19	6.55	8.05	7.84	7.34	6.26	4.97	2.66
4	3.51	4.33	6.65	4.92	7.54	6.62	8.06	7.88	7.26	6.17	4.98	2.55
5	3.58	4.35	6.16	4.89	7.13	6.64	8.06	7.85	7.25	6.11	4.85	2.42
6	3.83	4.39	5.74	4.88	6.79	6.65	8.07	7.84	7.26	6.13	4.85	2.33
7	3.97	4.41	5.44	4.86	6.50	6.74	8.07	7.86	7.18	6.08	4.82	2.41
8	4.00	4.42	5.23	4.86	6.26	6.78	8.06	7.88	7.15	6.04	4.75	2.37
9	4.05	4.43	5.09	4.86	7.84	7.12	8.01	7.86	7.15	6.00	4.76	2.31
10	4.11	4.45	5.02	4.86	7.67	7.08	8.06	7.88	7.10	5.96	4.69	2.30
11	4.14	4.58	5.00	4.83	9.24	7.10	8.06	7.81	7.05	5.92	4.55	2.24
12	4.17	4.50	4.96	4.82	9.61	7.05	7.92	7.76	7.12	5.87	4.52	2.36
13	4.21	4.59	4.90	4.79	8.70	7.01	8.00	7.75	7.06	5.88	4.44	2.36
14	4.22	4.38	4.85	4.77	8.34	7.02	8.01	7.75	7.05	5.85	4.47	2.34
15	4.23	4.32	4.89	4.76	8.20	8.62	8.01	7.73	7.00	5.78	4.37	2.41
16	4.24	4.30	6.58	4.75	7.88	8.66	8.00	7.75	6.96	5.74	4.26	2.43
17	4.26	4.29	8.53	4.74	7.60	9.75	7.97	7.74	6.95	5.68	4.05	2.49
18	4.27	4.35	8.01	4.73	7.36	9.26	7.88	7.68	6.90	5.58	3.86	2.43
19	4.30	4.31	7.32	4.72	7.15	8.69	7.93	7.76	6.87	5.51	3.75	2.45
20	4.30	4.29	6.84	4.71	6.98	8.52	7.89	7.70	6.84	5.49	3.67	2.45
21	4.30	4.29	6.43	4.70	6.85	8.28	7.97	7.68	6.80	5.46	3.66	2.43
22	4.31	1.92	6.10	4.69	6.72	8.11	8.00	7.63	6.76	5.45	3.59	2.44
23	4.31	1.60	5.83	4.72	6.68	8.03	7.99	7.59	6.72	5.42	3.50	2.50
24	4.31	1.46	5.63	4.72	6.66	8.03	8.04	7.60	6.69	5.39	3.46	2.59
25	4.30	1.62	5.48	4.72	6.65	8.07	8.00	7.53	6.67	5.36	3.29	2.76
26	4.29	3.25	5.38	5.29	6.63	8.17	8.03	7.47	6.57	5.33	3.09	2.91
27	4.28	2.46	5.28	5.66	6.58	8.17	8.02	7.50	6.52	5.27	3.07	3.01
28	4.28	2.07	5.21	5.53	6.61	8.16	8.00	7.46	6.44	5.23	2.99	3.06
29	4.28	1.91	5.15	5.78		8.12	7.95	7.39	6.39	5.17	2.97	3.13
30	4.29	2.13	5.11	6.73		8.11	7.99	7.35	6.37	5.16	2.91	3.22
31	4.29		5.07	9.35		8.07		7.36		5.12	2.80	

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Gage height at 12:00 Noon.

TABLE 292

DAILY MEAN GAGE HEIGHT
CACHE CREEK AT YOLO

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb	Mar	Apr.	May	June
1		2.13A		6.29	1.86	2.08	1.24		17		NF	NF	3.11	3.2[illegible]	NF		
2		6.25		4.25	1.81	1.97	1.25		18		3.29	NF	2.[illegible]	3.[illegible]	NF		
3		3.54		4.83	1.78	1.85	1.30		19		2.91	NF	.70	3.33	NF		
4		2.41		3.70	1.75	1.63	1.31		20		2.20	NF	2.55	3.06	NF		
5		NR		3.14	1.73	1.58	1.13		21		1.17A	NF	2.4[illegible]	2.93	NF		
6	NO	NR	NO	2.78	1.71	1.54	NF	NO	22	NO	NF	NF	2.[illegible]	2.74	NF	NO	NO
7		NR		2.57	1.73	1.48	NF		23		NF	NF	2.22	2.61	NF		
8	FLOW	NR	FLOW	2.37	1.73	1.43	NF	FLOW	24	FLOW	NF	NF	2.14	2.54	1.41	FLOW	FLOW
9		1.40A		2.27	1.74	1.39	NF		25		NF	NF	2.07	2.46	1.41		
10		1.16A		3.43	2.01	1.35	NF		26		NF	1.32A	2.02	2.44	1.41		
11		NF		3.34	1.99	1.20	NF		27		1.34A	NR	1.95	2.44	1.41		
12		NF		4.63	1.93	NF	NF		28		1.45	NR	1.90	2.46	1.41		
13		NF		3.89	1.92	NF	NF		29		1.32A	NR		2.39	1.36		
14		NF		3.48	1.90	NF	NF		30		NF	NR		2.32	1.30		
15		NF		3.32	2.32	NF	NF		31		NF	5.31		2.25			
16		NF		3.39	3.28	NF	NF										

Crest Stages:	Date	12-1-60	12-18-60	1-30-61	1-31-61	2-3-61	2-10-61	2-12-61	3-18-61
	Time	2400	1230	1315	2245	0515	1230	0600	[illegible]045
	Stage	11.56	3.60	5.08	8.48	5.50	3.97	5.00	4.25

E-Estimated NR-No Record
NF-No Flow A-Mean gage height for period of flow.

TABLE 293

DAILY MEAN GAGE HEIGHT
YOLO BYPASS NEAR WOODLAND

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1		NR	NR	19.48	12.20	13.14	NR	10.64	17		NR	NR	16.74	14.61	9.63	10.74	10.15
2		NR	NR	20.26	12.07	13.06	NR	10.64	18		NR	NR	16.85	15.54	9.75	10.72	10.19
3		15.25	NR	20.17	12.04	12.32	NR	10.68	19		11.21	NR	16.18	15.96	9.83	10.87	10.25
4		15.38	NR	20.19	11.77	11.52	9.58	10.70	20		11.99	NR	15.46	15.55	9.92	10.92	10.28
5		16.80	NR	19.98	11.40	10.98	9.74	10.69	21		11.43	NR	14.79	14.95	9.97	10.79	10.21
6	NO	16.60	NR	19.87	11.57	10.80	10.00	10.60	22	NO	10.94	NR	14.23	14.37	10.19	10.69	10.07
7		14.44	NR	19.49	11.52	10.67	10.25	10.50	23		10.46	NR	13.85	13.89	10.49	10.59	10.01
8	RECORD	11.80	NR	18.85	11.52	10.27	10.38	10.37	24	RECORD	10.13	NR	13.33	13.53	10.23	10.52	9.92
9		10.34	NR	17.95	11.71	9.95	10.41	10.21	25		9.86	NR	13.04	13.30	10.09	10.52	9.89
10		9.66	9.82	17.19	11.69	9.62	10.40	10.15	26		9.63	NR	12.92	13.00	9.95	10.55	9.88
11		NR	NR	18.39	12.01	9.53	10.44	10.14	27		NR	NR	12.61	12.89	9.63	10.46	9.80
12		NR	NR	18.73	12.09	9.58	10.52	10.04	28		NR	11.14	12.43	13.07	NR	10.57	9.91
13		NR	9.88	18.85	12.02	9.58	10.59	9.86	29		NR	11.67		12.92	NR	10.69	9.79
14		NR	9.63	18.02	11.87	NR	10.68	10.02	30		NR	11.59		12.58	NR	10.77	9.66
15		NR	NR	17.29	12.37	NR	10.73	10.28	31		NR	15.11		12.70		10.71	
16		NR	NR	16.93	13.42	NR	10.76	10.23									

Crest Stages:	Date	12-5-60	2-1-61	2-2-61	2-3-61	2-13-61	3-1[illegible]-61
	Time	1900	2300	0600	2200	0100	2300
	Stage	16.98	20.31	[illegible].32	20.30	19.09	16.16

E-Estimated NR-No Record

TABLE 294

DAILY MEAN GAGE HEIGHT
YOLO BYPASS ABOVE SACRAMENTO BYPASS

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1		NR		16.29	11.13	11.85	NR	10.27	17		NR	NR	15.17	13.16		10.36	9.72
2		NR		16.97	10.99	11.89	NR	10.29	18		NR	NR	15.23	14.02		10.33	9.79
3		13.77		16.96	10.96	11.31	NR	10.31	19		NR	NR	14.81	14.47		10.43	9.87
4		14.00		16.98	10.73	10.60	NR	10.32	20		11.09	NR	14.27	14.18		10.55	9.92
5		15.12		16.89	10.36	10.12	NR	10.30	21		10.64	NR	13.59	13.66		10.40	9.83
6	NO	15.16	NO	16.82	10.44	9.86	NR	10.23	22	NO	10.17	NR	13.06	13.09	NO	10.30	9.63
7		13.59		16.72	10.48	9.79	NR	10.10	23		9.65	NR	12.70	12.66		10.22	9.65
8	RECORD	11.24	RECORD	16.47	10.46	9.48E	NR	10.00	24	RECORD	NR	NR	12.20	12.29	RECORD	10.16	9.58
9		9.83E		16.06	10.60	NR	NR	9.85	25		NR	NR	11.89	12.11		10.10	9.54
10		NR		15.54	10.56	NR	NR	9.78	26		NR	NR	11.83	11.80		10.17	9.51
11		NR		16.09	10.80	NR	10.10	9.78	27		NR	NR	11.51	11.71		10.12	NR
12		NR		16.28	10.91	NR	10.24	9.68	28		NR	NR	11.35	11.87		10.15	9.51
13		NR		16.37	10.88	NR	10.25	9.53	29		NR	10.62		11.78		10.30	NR
14		NR		16.01	10.71	NR	10.32	9.69	30		NR	10.51		11.44		10.42	NR
15		NR		15.59	11.09	NR	10.38	9.93	31		NR	13.30		11.44		10.34	
16		NR		15.35	11.93		10.36	9.85									

Crest Stages:	Date	12-5-60	2-3-61	2-13-61	3-18-61
	Time	2400	2400	0145	2400
	Stage	15.38	17.00	16.46	14.60

E - Estimated NR - No Record

TABLE 295

DAILY MEAN GAGE HEIGHT
PUTAH CREEK NEAR WINTERS

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	5.00	3.95	3.90	4.09	5.05	4.97	6.05	6.68	17	4.63	3.93	4.80	4.97	4.88	5.82	6.69	7.[illegible]
2	5.37	3.92	3.90	4.02	5.06	5.13	6.18	6.66	18	4.80	3.87	4.80	4.97	4.87	5.81	6.57	6.95
3	5.17	3.92	3.91	4.00	5.06	5.17	6.22	6.60	19	4.80	3.87	4.80	4.97	4.87	5.77	6.46	6.92
4	4.44	3.83	3.91	4.16	5.06	5.31	6.31	6.48	20	4.52	3.87	4.80	4.97	4.87	5.77	6.60	6.97
5	4.43	3.87	3.91	4.72	5.06	5.49	6.41	6.53	21	4.23	3.86	4.80	4.94	4.87	5.88	6.63	7.16
6	4.14	3.87	3.90	5.01	5.05	5.58	6.46	6.59	22	4.23	3.87	4.80	4.95	4.86	5.87	6.73	7.22
7	3.95	3.86	3.88	4.84	5.06	5.68	6.43	6.67	23	4.15	3.87	4.38	4.97	4.85	5.65	6.82	7.15
8	4.25	3.86	3.88	4.97	5.09	5.74	6.46	6.77	24	3.86	3.87	3.87	4.98	4.85	5.65	6.82	7.17
9	4.26	3.87	3.88	4.98	5.17	5.70	6.33	6.81	25	3.92	3.87	3.92	4.98	4.86	5.76	6.83	7.15
10	4.26	3.90	3.89	5.22	5.17	5.64	6.51	6.78	26	3.94	3.88	4.17	4.98	4.85	5.86	6.75	7.05
11	4.20	3.92	3.88	5.44	5.25	5.63	6.65	6.64	27	3.90	3.89	3.96	4.99	4.85	5.88	6.77	7.12
12	4.03	3.92	3.88	5.16	5.32	5.68	6.73	6.61	28	3.90	3.90	3.95	5.00	4.84	5.92	6.81	7.26
13	4.03	3.95	3.88	4.96	5.40	5.72	6.69	6.79	29	3.91	3.89	4.03		4.84	5.90	6.69	7.20
14	3.95	3.95	3.89	4.96	5.50	5.76	6.57	6.94	30	3.95	3.90	4.12		4.84	5.93	6.70	7.08
15	4.02	3.90	3.90	4.96	5.10	5.74	6.56	6.98	31		3.90	4.34		4.84		6.72	
16	4.59	3.95	4.57	4.96	4.90	5.74	6.65	7.[illegible]									

Crest Stages:	Date	7-4-61	
	Time	11[illegible]	
	Stage	7.55	

E - Estimated NR - No Record

TABLE 29[illegible]

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	54.0	54.5	54.7	55.7	54.9	55.2	NR	55.4	17	54.4	54.6	5[illegible].6	55.1	54.7	55.0	55.1	54.8
2	54.0	54.5	54.8	55.6	54.9	55.2	NR	55.4	18	54.4	54.4	55.0	55.0	54.7	55.1	55.1	54.7
3	54.0	54.5	54.8	55.6	55.0	55.2	NR	55.3	19	54.4	54.4	55.0	55.0	54.7	55.0	55.1	54.7
4	54.0	54.5	54.8	55.5	55.0	55.3	NR	55.4	20	54.4	54.5	54.9	55.0	54.8	54.9	55.1	54.7
5	54.1	54.6	54.8	55.5	54.9	55.3	NR	55.4	21	54.5	54.5	54.9	55.0	54.7	54.8	55.2	54.7
6	54.2	54.7	54.9	55.4	54.9	55.3	NR	55.2	22	54.5	54.6	54.8	55.0	54.7	54.9	55.2	54.7
7	54.2	54.7	54.9	55.4	54.9	55.2	NR	55.2	23	54.6	54.5	54.8	55.1	54.7	55.0	55.3	54.6
8	54.3	54.6	54.8	55.4	54.9	55.2	NR	55.1	24	54.6	54.4	54.8	55.2	54.8	55.1	55.4	54.4
9	54.3	54.6	54.9	55.3	54.9	55.2	NR	55.0	25	54.6	54.5	54.8	55.2	54.9	55.2	55.5	54.4
10	54.3	54.5	55.1	55.3	55.0	55.1	NR	55.0	26	54.6	54.6	55.8	55.2	54.9	55.2	55.5	54.6
11	54.3	54.6	55.5	55.3	54.9	55.0	NR	55.0	27	54.5	54.7	56.2	55.1	55.0	55.1	55.5	54.6
12	54.3	54.6	55.3	55.2	54.8	54.9	55.3	55.0	28	54.5	54.9	56.2	55.0	55.1	NR	55.4	54.5
13	54.2	54.7	55.2	55.2	54.6	54.8	55.3	55.0	29	54.4	54.9	56.2		55.1	NR	55.4	54.5
14	54.2	54.6	55.2	55.2	54.6	55.0	55.3	55.0	30	54.4	54.8	56.1		55.1	NR	55.4	54.6
15	54.3	54.6	55.1	55.2	54.6	55.0	55.2	55.0	31		54.7	55.9		55.2		55.4	
16		54.6	55.1	55.2	54.6	55.0	55.2	54.9									

Crest Stages:			
	Date	1-11-61	1-28-61
	Time	0900	1100
	Stage	55.6	56.2

E-Estimated NR-No Record

TABLE 297

DAILY MEAN GAGE HEIGHT
MERCED RIVER BELOW SNELLING

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.8	5.3	5.1	5.3	5.2	5.3	5.6	5.8	17	5.0	5.3	5.1	5.3	5.4	5.4	5.4	5.6
2	4.9	5.4	5.1	5.4	5.2	5.3	5.6	5.6	18	5.1	5.3	5.1	5.2	5.4	5.5	5.4	5.6
3	4.9	5.4	5.1	5.4	5.2	5.2	5.6	5.6	19	5.2	5.3	5.1	5.2	5.3	5.6	5.5	5.6
4	5.0	5.3	5.2	5.3	5.2	5.1	5.6	5.6	20	5.1	5.3	5.1	5.2	5.3	5.7	5.9	5.6
5	5.0	5.3	5.2	5.3	5.2	5.0	5.6	5.6	21	5.1	5.3	5.0	5.2	5.3	5.8	5.9	5.7
6	5.1	5.3	5.1	5.3	5.2	4.9	5.7	5.7	22	5.1	5.3	5.0	5.2	5.3	5.8	5.8	5.7
7	5.0	5.3	5.1	5.3	5.2	4.9	5.8	5.7	23	5.1	5.2	5.0	5.2	5.4	5.6	5.6	5.7
8	5.0	5.3	5.1	5.3	5.2	5.0	5.6	5.7	24	5.1	5.2	5.1	5.2	5.3	5.7	5.6	5.7
9	5.0	5.3	5.0	5.3	5.2	5.0	5.5	5.7	25	5.1	5.2	5.2	5.2	5.3	5.6	5.7	5.7
10	5.1	5.2	5.0	5.3	5.2	5.0	5.6	5.7	26	5.3	5.2	5.4	5.2	5.3	5.6	5.6	5.6
11	5.0	5.2	5.1	5.3	5.1	5.0	5.6	5.7	27	5.2	5.1	5.3	5.2	5.3	5.8	5.6	5.6
12	5.1	5.1	5.1	5.3	5.1	4.8	5.5	5.7	28	5.2	5.1	5.2	5.2	5.3	5.7	5.6	5.6
13	5.1	5.1	5.0	5.3	5.1	4.8	5.4	5.7	29	5.1	5.1	5.3		5.3	5.7	5.7	5.6
14	5.2	5.2	5.1	5.2	5.1	4.8	5.4	5.7	30	5.2	5.1	5.3		5.3	5.7	5.7	5.5
15	5.1	5.3	5.1	5.3	5.4	5.0	5.4	5.6	31		5.1	5.3		5.3		5.6	
16	5.1	5.3	5.1	5.3	5.4	5.4	5.4	5.6								5.8	

Crest Stages:		
	Date	5-20-61
	Time	1300
	Stage	6.0

NR — No Record

TABLE 298

DAILY MEAN GAGE HEIGHT
MERCED RIVER AT CRESSEY

In feet

Date	19[illegible]		1961						Date	1960		1961					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	0.3	0.6	0.4	0.6	0.4	0.3	0.5	10.5	17	0.5	0.6	0.4	0.5	0.5	0.1	0.3	10.3
2	0.3	0.7	0.4	0.6	0.4	0.3	0.5	10.6	18	0.6	0.6	0.4	0.5	0.4	0.1	0.2	10.3
3	0.3	0.8	0.4	0.6	0.4	0.4	0.4	10.6	19	0.6	0.5	0.4	0.5	0.4	0.1	0.2	10.2
4	0.4	0.7	0.4	0.7	0.4	0.4	0.4	10.5	20	0.5	0.4	0.4	0.4	0.4	0.1	0.2	10.2
5	0.4	0.7	0.4	0.6	0.4	0.3	0.3	10.5	21	0.6	0.4	0.4	0.4	0.4	0.2	0.3	10.2
6	0.5	0.7	0.4	0.6	0.4	0.2	0.3	10.5	22	0.6	0.4	0.4	0.4	0.4	0.4	0.5	10.3
7	0.5	0.7	0.4	0.6	0.4	0.2	0.4	10.5	23	0.6	0.4	0.4	0.4	0.4	0.4	0.5	10.3
8	0.5	0.7	0.4	0.6	0.4	0.2	0.6	10.5	24	0.6	0.4	0.4	0.4	0.4	0.5	0.5	10.3
9	0.5	0.6	0.4	0.6	0.4	0.2	0.6	10.5	25	0.6	0.4	0.4	0.4	0.4	0.4	0.4	10.3
10	0.5	0.6	0.4	0.5	0.4	0.2	0.5	10.4	26	0.6	0.4	0.6	0.4	0.4	0.4	0.4	10.3
11	0.5	0.6	0.4	0.5	0.3	0.2	0.4	10.4	27	0.6	0.4	0.7	0.4	0.4	0.4	0.4	10.2
12	0.5	0.6	0.4	0.5	0.4	0.1	0.4	10.3	28	0.7	0.4	0.6	0.4	0.4	0.6	0.5	10.1
13	0.5	0.6	0.4	0.6	0.3	0.2	0.5	10.4	29	0.7	0.4	0.6		0.4	0.6	0.4	10.0
14	0.5	0.6	0.4	0.6	0.3	0.1	0.4	10.3	30	0.6	0.4	0.6		0.3	0.5	0.4	9.9
15	0.5	0.6	0.4	0.5	0.4	0.1	0.3	10.3	31		0.4	0.7		0.3		0.5	
16	0.5	0.6	0.4	0.5	0.5	0.1	0.3										

Crest Stages:		
	Date	1-27-61
	Time	1220
	Stage	0.8

NR – No Record
a Datum lowered 10 feet 6-1-61 for computational reasons

TABLE 299

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR NEWMAN

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	47.6	NR	48.3	49.7	48.6	48.4	48.3	48.4	17	NR	48.3	49.2	48.9	48.3	48.0	48.3	47.8
2	47.6	NR	48.4	49.6	48.5	48.4	48.3	48.3	18	NR	48.2	49.1	48.9	48.3	48.1	48.2	47.7
3	47.6	NR	48.4	49.7	48.5	48.3	48.3	48.3	19	NR	48.2	49.0	48.8	48.3	48.0	48.1	47.8
4	47.7	48.5	48.4	49.6	S	48.4	48.2	48.4	20	NR	48.2	49.0	48.8	48.3	47.9	48.1	47.7
5	NR	48.4	48.4	49.6	48.5	48.4	48.1	48.5	21	NR	48.2	49.0	48.7	48.3	47.8	48.2	47.7
6	NR	48.5	48.4	49.5	S	48.3	48.2	48.4	22	NR	48.2	S	48.8	48.3	48.0	48.3	47.7
7	NR	48.5	48.4	49.4	48.4	48.2	48.4	48.2	23	NR	48.2	49.0	48.8	48.3	48.2	48.3	47.6
8	NR	48.4	48.5	49.4	48.4	48.2	48.5	48.1	24	NR	48.2	48.8	48.8	48.3	48.4	48.5	47.5
9	NR	48.4	48.7	49.3	48.4	48.2	48.4	48.1	25	48.3	48.2	48.7	48.9	48.4	48.4	48.5	47.5
10	NR	48.4	49.2	49.2	48.4	48.3	48.5	48.1	26	48.3	48.2	49.3	48.8	48.4	48.4	48.5	47.6
11	NR	48.4	49.6	49.2	48.3	48.2	48.4	48.1	27	NR	48.3	49.8	48.8	48.4	48.2	48.5	47.5
12	NR	48.4	49.6	49.1	48.3	48.1	48.4	48.1	28	NR	48.4	50.0	48.6	48.4	48.2	48.4	47.5
13	NR	48.4	49.5	49.1	48.3	48.0	48.4	48.1	29	NR	48.4	50.0		48.4	48.2	48.5	47.5
14	NR	48.4	49.4	49.0	48.1	48.0	48.4	48.0	30	NR	48.4	50.0		48.4	48.2	48.5	47.6
15	NR	48.4	49.3	49.0	48.2	48.0	48.4	48.0	31		48.4	49.9		48.4		48.5	
16	NR	48.3	49.2	49.0	48.2	48.0	48.3	47.9									

Crest Stages			
	Date	1-22-61	1-29-61
	Time	1050	2100
	Stage	51.0	50.1

E – Estimated NR – No Record

TABLE 300

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT GROWS LANDING BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	37.9	38.6	38.5	39.8	38.6	38.4	38.5	38.6	17	38.5	38.5	39.2	38.5	38.4	38.1	38.5	38.0
2	37.9	38.7	38.5	39.7	38.5	38.5	38.5	38.5	18	38.4	38.4	39.2	38.7	38.4	38.2	38.5	38.0
3	37.9	38.7	38.6	39.7	38.5	38.6	38.4	38.4	19	38.4	38.4	39.2	38.9	38.4	38.1	38.3	38.0
4	37.9	38.7	38.6	39.7	38.5	38.4	38.4	38.5	20	38.4	38.4	39.1	38.9	38.4	38.0	38.3	37.9
5	38.0	38.6	38.5	39.6	38.7	38.4	38.3	38.6	21	38.4	38.4	39.5	38.6	38.4	38.0	38.3	37.8
6	38.1	38.6	38.5	39.6	38.7	38.4	38.2	38.6	22	38.4	38.4	39.5	38.3	38.4	38.1	38.4	37.8
7	38.2	38.6	38.6	39.5	38.7	38.4	38.6	38.4	23	38.4	38.4	39.3	38.5	38.4	38.3	38.4	37.8
8	38.3	38.6	38.6	39.4	38.5	38.4	38.6	38.4	24	38.4	38.4	39.0	38.8	38.4	38.5	38.6	37.8
9	38.3	38.6	38.7	39.4	38.5	38.4	38.6	38.3	25	38.4	38.4	38.9	38.9	38.5	38.6	38.7	37.7
10	38.4	38.5	39.0	39.3	38.5	38.4	38.6	38.3	26	38.5	38.4	39.2	38.9	38.6	38.5	38.6	37.8
11	38.4	38.5	39.4	39.3	38.5	38.4	38.6	38.3	27	38.5	38.4	39.7	38.8	38.6	38.4	38.6	37.8
12	38.4	38.5	39.6	39.2	38.4	38.3	38.5	38.4	28	38.5	38.5	39.8	38.7	38.6	38.4	38.6	37.8
13	38.5	38.6	39.5	39.2	38.4	38.3	38.5	38.3	29	38.5	38.6	39.9		38.5	38.4	38.7	37.8
14	38.5	38.6	39.4	39.1	38.3	38.2	38.6	38.2	30	38.5	38.6	40.0		38.5	38.3	38.7	37.8
15	38.5	38.5	39.4	39.1	38.3	38.1	38.6	38.2	31		38.5	40.0		38.4		38.7	
16	38.5	38.5	39.3	39.1	38.4	38.1	38.5	38.1									

Crest Stages:	Date	1-22-61	1-30-61	3-5-61	3-6-61
	Time	1830	0600	0200	2400
	Stage	40.2	40.1	38.9	39.0

NR — No Record

TABLE 301

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT PATTERSON BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	32.6	33.1	32.7	33.7	32.4	32.1	31.7	31.9	17	33.0	32.9	33.4	32.9	31.8	31.3	32.2	31.6
2	32.6	33.2	32.7	33.6	32.3	32.3	31.6	31.7	18	33.0	32.9	33.1	32.8	31.9	31.0	32.1	30.8
3	32.6	33.2	32.7	33.5	32.4	32.3	31.7	31.8	19	33.0	32.9	33.1	32.8	32.1	31.1	32.0	31.0
4	32.6	33.2	32.7	33.5	32.4	32.0	31.6	31.8	20	33.0	32.8	33.0	32.8	32.1	30.9	32.1	31.3
5	32.8	33.1	32.7	33.4	32.7	31.8	31.7	31.9	21	33.0	32.8	33.0	32.8	32.1	30.7	32.1	31.1
6	32.9	33.1	32.7	33.4	32.6	31.9	31.6	31.8	22	33.0	32.8	33.1	32.7	32.2	30.9	32.2	31.1
7	32.9	33.0	32.7	33.3	32.7	31.9	32.2	31.8	23	33.0	32.7	33.4	32.7	32.2	31.3	32.2	31.3
8	32.9	33.0	32.7	33.3	32.4	31.8	32.4	31.6	24	33.0	32.6	33.0	32.7	32.2	31.7	32.1	31.8
9	32.9	33.0	32.7	33.2	32.3	31.9	32.4	31.6	25	33.0	32.6	32.9	32.8	32.2	31.8	32.2	32.0
10	33.0	33.0	32.9	33.2	32.2	32.0	32.3	31.5	26	33.0	32.6	33.1	32.7	32.2	31.7	32.1	31.7
11	33.0	33.0	33.2	33.2	32.1	31.8	32.2	31.4	27	33.0	32.7	33.4	32.7	32.3	31.6	32.0	31.3
12	33.0	33.0	33.3	33.1	32.0	31.7	32.1	31.7	28	33.0	32.7	33.6	32.6	32.2	31.6	32.0	31.3
13	33.1	33.0	33.4	33.0	32.0	31.9	32.2	31.6	29	32.9	32.7	33.7		32.2	31.6	32.1	31.4
14	33.1	33.0	33.3	33.0	31.9	31.7	32.3	31.3	30	32.6	32.7	33.8		32.1	31.7	32.2	31.4
15	33.1	33.0	33.2	33.0	31.7	31.5	32.3	31.2	31		32.7	33.8		32.1		32.1	
16	33.1	33.0	33.2	32.9	31.7	31.5	32.1	31.1									

Crest Stages:	Date	1-30-61	
	Time	1000	
	Stage	33.0	

NR — No Record

TABLE 302

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT GRAYSON

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	23.0	23.6	23.6	24.8	23.7	23.4	23.1	23.3	17	23.5	23.5	24.2	24.1	23.0	22.8	23.4	22.6
2	22.9	23.8	23.5	24.8	23.6	23.4	23.1	23.1	18	23.5	23.5	24.1	24.0	23.1	22.6	23.4	22.5
3	23.0	23.8	23.6	24.7	23.5	23.5	23.0	23.0	19	23.5	23.4	24.1	24.0	23.2	22.6	23.4	22.5
4	23.0	23.9	23.6	24.7	23.6	23.3	23.1	23.1	20	23.5	23.4	24.0	23.9	23.2	22.6	23.3	22.6
5	23.1	23.8	23.6	24.6	23.8	23.1	23.1	23.3	21	23.5	23.4	24.0	24.0	23.2	22.5	23.3	22.6
6	23.2	23.8	23.6	24.6	23.8	23.2	23.0	23.2	22	23.4	23.4	24.1	23.9	23.3	22.5	23.4	22.5
7	23.3	23.7	23.6	24.6	23.8	23.2	23.4	23.1	23	23.4	23.4	24.4	23.8	23.3	22.7	23.4	22.5
8	23.3	23.7	23.6	24.5	23.6	23.0	23.6	23.0	24	23.4	23.4	24.1	23.9	23.3	23.0	23.4	22.6
9	23.4	23.6	23.6	24.4	23.5	23.1	23.5	23.0	25	23.4	23.4	23.9	23.9	23.3	23.2	23.4	22.7
10	23.4	23.6	23.8	24.4	23.4	23.2	23.5	22.9	26	23.5	23.4	24.1	23.9	23.4	23.2	23.4	22.7
11	23.4	23.6	24.0	24.4	23.3	23.2	23.5	22.9	27	23.5	23.5	24.4	23.9	23.5	23.1	23.3	22.4
12	23.5	23.6	24.3	24.3	23.2	23.0	23.4	23.1	28	23.5	23.5	24.7	23.8	23.4	23.1	23.3	22.4
13	23.5	23.6	24.4	24.3	23.2	23.1	23.4	22.9	29	23.5	23.6	24.8		23.3	23.1	23.4	22.4
14	23.5	23.6	24.3	24.2	23.1	23.0	23.5	22.7	30	23.6	23.6	24.9		23.3	23.1	23.4	22.4
15	23.5	23.6	24.3	24.2	23.0	22.9	23.5	22.6	31		23.6	25.0		23.3		23.4	
16	23.6	23.6	24.2	24.1	23.0	22.8	23.4	22.6									

Crest Stages:				
	Date	1-13-61	1-23-61	1-30-61
	Time	1200	0900	2400
	Stage	24.4	24.6	25.0

NR – No Record

TABLE 303

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	109.2	109.3	109.4	108.9	108.8	108.2	108.3	108.2	17	109.2	109.4	109.5	108.9	108.3	108.3	108.2	108.1
2	109.3	109.6	109.1	108.9	108.3	108.2	108.3	108.2	18	109.2	109.6	109.6	108.9	108.2	108.2	108.2	108.2
3	109.2	109.4	109.6	109.0	108.3	108.2	108.3	108.2	19	108.9	109.6	109.6	108.8	108.2	108.2	108.2	108.2
4	109.2	109.3	109.7	108.9	108.2	108.2	108.2	108.2	20	108.9	109.7	109.6	108.7	108.2	108.2	108.2	108.1
5	109.2	109.2	109.6	108.8	108.2	108.2	108.2	108.2	21	109.0	109.7	109.6	108.8	108.2	108.2	108.2	108.1
6	109.2	109.6	109.7	108.8	108.2	108.2	108.2	108.2	22	109.2	109.7	109.3	108.8	108.2	108.3	108.2	108.1
7	109.3	109.8	109.6	108.9	108.2	108.2	108.3	108.2	23	109.2	109.7	109.2	108.7	108.2	108.3	109.2	108.2
8	109.2	109.7	109.2	108.9	108.2	108.2	108.3	108.1	24	109.0	109.6	109.6	108.9	108.2	108.3	108.2	108.1
9	109.2	109.7	109.2	108.8	108.2	108.2	108.3	108.1	25	108.4	109.7	109.3	108.8	108.2	108.3	108.2	108.1
10	109.2	109.7	109.3	108.8	108.2	108.2	108.3	108.2	26	108.9	109.6	109.5	108.8	108.2	108.3	108.2	108.1
11	109.2	109.6	109.2	108.8	108.2	108.2	108.2	108.2	27	108.9	109.6	109.3	108.8	108.2	108.3	108.2	108.1
12	109.2	109.3	109.6	108.6	108.2	108.2	108.2	108.2	28	109.1	109.7	109.2	108.9	108.2	108.3	108.2	108.1
13	109.0	109.7	109.6	108.4	108.2	108.2	108.2	108.1	29	109.3	109.7	109.1		108.2	108.2	108.2	108.1
14	109.1	109.7	109.4	108.9	108.2	108.2	108.2	108.1	30	109.3	109.7	109.2		108.2	108.3	108.2	108.1
15	109.0	109.7	109.[illegible]	108.8	108.3	108.2	108.2	108.1	31		109.7	109.2		108.2		108.2	
16	109.1	109.[illegible]	109.3	108.9	108.3	108.3	108.2	108.1									

Crest Stages:		
	Date	1-7-[illegible]
	Time	[illegible]
	Stage	1[illegible].1

NR – No Record

TABLE 304

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT HICKMAN BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	73.4	73.4	73.7	73.3	73.0	72.6	72.2	72.2	17	73.4	73.7	73.7	73.[illegible]	72.3	72.2	72.2	72.2
2	73.5	73.9	73.3	72.9	72.4	72.[illegible]	72.[illegible]	72.[illegible]	18	73.4	73.7	73.8	73.[illegible]	72.3	72.2	72.2	72.2
3	73.4	73.6	73.7	73.2	72.4	72.2	72.[illegible]	72.2	19	73.[illegible]	73.8	73.9	73.[illegible]9	72.3	72.2	72.2	72.2
4	73.5	73.4	73.9	73.1	72.3	72.2	72.[illegible]	72.[illegible]	20	73.[illegible]	74.0	73.[illegible]9	72.6	72.3	72.2	72.2	72.2
5	73.4	73.3	73.9	72.9	72.3	72.2	72.[illegible]2	72.2	21	72.9	73.9	73.[illegible]8	72.9	72.3	72.2	72.2	72.2
6	73.5	73.8	73.9	72.7	72.3	72.[illegible]2	72.2	72.2	22	72.[illegible]	73.9	73.[illegible]	72.9	72.3	72.2	72.2	72.2
7	73.6	74.0	73.8	73.1	72.3	72.[illegible]	72.[illegible]	72.2	23	73.4	73.9	73.[illegible]	72.6	72.3	72.2	72.2	72.2
8	73.5	74.0	73.4	73.[illegible]	72.3	72.[illegible]	72.[illegible]	72.2	24	73.[illegible]	73.[illegible]	73.[illegible]	73.[illegible]	72.3	72.2	72.2	72.2
9	73.4	73.9	73.2	72.9	72.[illegible]	72.[illegible]	72.[illegible]	72.[illegible]	25	73.[illegible]6	73.9	73.5	73.[illegible]	72.3	72.2	72.2	72.2
10	73.[illegible]	73.9	73.5	72.9	72.3	72.[illegible]	72.[illegible]	72.[illegible]	26	73.[illegible]8	73.8	73.7	72.7	72.3	72.2	72.2	72.2
11	73.5	73.8	73.2	72.8	72.3	72.[illegible]	72.[illegible]	72.[illegible]	27	73.[illegible]	73.8	73.5	72.8	72.3	72.2	72.2	72.2
12	73.5	73.5	73.8	72.[illegible]	72.[illegible]	72.[illegible]	72.[illegible]	72.[illegible]	28	73.1	73.9	73.4	73.[illegible]	72.3	72.2	72.2	72.2
13	73.4	73.9	73.8	72.[illegible]	72.[illegible]	72.[illegible]	72.[illegible]	72.[illegible]	29	73.4	73.9	73.[illegible]		72.3	72.2	72.2	72.2
14	73.4	73.9	73.8	73.9	72.3	72.[illegible]	72.[illegible]	72.[illegible]	30	73.[illegible]	73.9	73.[illegible]		72.2	72.2	72.2	72.2
15	73.4	73.9	73.2	73.[illegible]	72.3	72.[illegible]2	72.[illegible]	72.[illegible]	31		73.9	73.4		72.2		72.2	
16	73.1	73.[illegible]	73.[illegible]	73.0	72.3	72.[illegible]	72.2	72.[illegible]									

Crest Stages:	Date	12-7-60	12-[illegible]-61	12-[illegible]-60
	Time	0700	0550	06[illegible]
	Stage	74.5	7[illegible]	74.[illegible]

NR — No Record

TABLE 305

DAILY MEAN GAGE HEIGHT
DRY CREEK NEAR MODESTO

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	67.8	NR	67.6	68.8	67.6	67.6	67.5	67.8	17	67.7	NR	NR	67.6	67.7	67.8	67.6	67.7
2	67.7	NR	NR	68.7	67.6	67.6	67.6	67.9	18	67.7	NR	67.6	67.6	67.6	67.8	67.7	67.7
3	67.7	68.2	NR	69.5	67.5	67.6	67.7	68.1	19	67.7	NR	67.6	67.6	67.6	67.8	67.9	67.6
4	67.8	67.9	NR	69.9	67.5	67.5	67.8	67.9	20	NR	NR	67.6	67.6	67.6	67.8	67.8	67.6
5	67.8	67.7	NR	69.0	67.5	67.5	67.8	67.8	21	NR	NR	67.6	67.6	67.6	67.8	67.9	67.7
6	67.8	67.7	NR	68.3	67.6	67.5	67.8	67.7	22	NR	NR	67.6	67.6	67.7	67.9	68.1	67.7
7	67.8	NR	67.7	68.0	67.6	67.6	68.4	67.8	23	NR	67.6	67.6	67.6	67.7	68.5	67.9	67.6
8	67.7	NR	67.7	67.9	67.6	67.8	68.8	67.8	24	NR	67.6	67.6	67.6	67.6	68.4	67.8	67.6
9	67.7	NR	67.7	67.8	67.6	67.7	68.1	67.9	25	NR	67.6	67.6	67.6	67.6	68.0	67.7	67.7
10	67.7	NR	67.7	67.7	67.6	67.8	67.8	68.0	26	NR	67.6	67.8	67.6	67.6	67.8	67.8	67.8
11	67.6	NR	NR	67.7	67.6	67.8	67.7	68.0	27	NR	67.6	68.9	67.6	67.7	67.6	67.8	67.8
12	67.7	NR	NR	67.7	67.6	67.7	67.5	67.9	28	NR	67.6	69.0	67.6	67.7	67.6	68.0	67.6
13	67.7	NR	NR	67.6	67.6	67.8	67.5	67.9	29	NR	67.6	68.7		67.6	67.5	68.1	67.4
14	67.7	NR	NR	67.6	67.6	67.8	67.4	67.8	30	NR	67.6	69.0		67.6	67.5	68.0	67.4
15	67.7	NR	NR	67.6	67.6	67.8	67.6	67.8	31		67.6	68.9		67.6		67.8	
16	67.7	NR	NR	67.6	67.7	67.8	67.6	67.8									

Crest Stages:	Date	[illegible]-61		
	Time	[illegible]		
	Stage	70.2		

NR — No Record

TABLE 306

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT MODESTO

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	41.8	41.8	42.0	41.9	41.5	41.2	41.2	41.2	17	41.8	42.0	41.8	41.6	41.3	41.2	41.2	41.1
2	41.8	41.8	41.8	41.7	41.4	41.2	41.2	41.2	18	41.8	41.8	41.9	41.5	41.2	41.2	41.2	41.1
3	41.8	41.9	41.7	41.8	41.3	41.2	41.2	41.2	19	41.3	41.9	42.0	41.5	41.2	41.2	41.2	41.2
4	41.8	41.9	42.0	41.9	41.3	41.2	41.2	41.2	20	41.6	42.0	42.0	41.4	41.2	41.2	41.2	41.1
5	41.8	41.8	42.0	41.7	41.2	41.2	41.2	41.2	21	41.6	42.0	42.0	41.4	41.2	41.2	41.2	41.1
6	41.8	41.7	42.0	41.6	41.2	41.2	41.2	41.2	22	41.7	42.0	42.0	41.5	41.2	41.2	41.2	41.1
7	41.8	42.0	42.0	41.6	41.2	41.2	41.2	41.2	23	41.8	42.0	41.8	41.4	41.2	41.3	41.2	41.1
8	41.8	42.0	42.0	41.6	41.2	41.2	41.3	41.2	24	41.8	42.0	41.8	41.5	41.2	41.3	41.2	41.1
9	41.8	42.0	41.7	41.6	41.2	41.2	41.2	41.2	25	41.6	42.0	42.0	41.5	41.2	41.2	41.2	41.2
10	41.8	42.0	41.8	41.6	41.2	41.2	41.2	41.2	26	41.4	42.0	41.9	41.4	41.2	41.2	41.2	41.2
11	41.8	42.0	41.7	41.6	41.2	41.2	41.2	41.2	27	41.6	41.9	42.0	41.4	41.2	41.2	41.2	41.2
12	41.8	41.9	41.8	41.5	41.2	41.2	41.2	41.2	28	41.6	42.0	41.9	41.5	41.2	41.2	41.2	41.1
13	41.8	41.8	42.0	41.4	41.2	41.2	41.2	41.2	29	41.7	42.0	41.8		41.2	41.2	41.2	41.1
14	41.7	42.0	42.0	41.4	41.2	41.2	41.2	41.2	30	41.8	42.0	41.8		41.2	41.2	41.2	41.1
15	41.8	42.0	41.8	41.6	41.2	41.2	41.2	41.1	31		42.0	41.9		41.2		41.2	
16	41.7	42.0	41.8	41.6	41.2	41.2	41.2	41.1									

Crest Stages:		
	Date	12-20-60
	Time	1800
	Stage	42.1

E - Estimated NR - No Record

TABLE 307

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT TUOLUMNE CITY

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	24.5	24.7	25.4	24.9	24.1	23.0	22.8	22.8	17	24.5	25.4	24.8	24.0	23.2	22.8	22.7	22.8
2	24.7	24.8	25.2	24.8	23.9	23.0	22.8	22.8	18	24.7	25.2	25.0	24.0	23.1	22.8	22.7	22.7
3	24.8	25.2	24.7	24.4	23.5	23.0	22.8	22.9	19	24.7	25.1	25.2	24.0	23.1	22.8	22.8	22.8
4	24.8	25.0	25.0	24.7	23.3	22.9	22.8	22.9	20	24.5	25.3	25.3	23.9	23.0	22.8	22.8	22.8
5	24.9	24.9	25.4	24.6	23.2	22.9	22.8	22.8	21	24.2	25.5	25.3	23.7	23.0	22.8	22.9	22.8
6	24.9	24.6	25.4	24.2	23.2	22.9	22.9	22.8	22	24.1	25.4	25.3	23.9	23.0	23.0	22.8	22.8
7	24.8	25.0	25.4	24.0	23.2	22.9	23.0	22.8	23	24.6	25.4	25.0	23.9	23.0	23.0	22.8	22.8
8	25.0	25.5	25.3	24.2	23.2	22.9	23.1	22.8	24	24.6	25.4	24.6	23.7	23.0	23.0	22.8	22.7
9	24.9	25.5	25.0	24.1	23.1	22.9	23.1	22.8	25	24.6	25.3	25.1	23.9	23.0	23.0	22.8	22.8
10	24.8	25.4	24.8	24.0	23.1	22.9	22.9	22.8	26	24.0	25.3	25.2	23.9	23.0	22.9	22.8	22.8
11	24.8	25.4	24.9	24.0	23.1	22.9	22.9	22.8	27	23.8	25.3	25.2	23.7	23.0	22.8	22.8	22.7
12	24.8	25.4	24.6	23.9	23.1	22.8	22.9	22.8	28	24.1	25.2	25.1	23.8	23.0	22.8	22.8	22.7
13	24.8	25.0	25.1	23.7	23.1	22.8	22.8	22.8	29	24.2	25.4	24.9		23.0	22.8	22.8	22.7
14	24.7	25.3	25.2	23.5	23.1	22.8	22.8	22.8	30	24.5	25.4	24.8		23.0	22.7	22.9	22.7
15	24.4	25.4	25.2	23.8	23.1	22.8	22.7	22.8	31		25.4	24.9		22.9		22.8	
16	24.6	25.4	24.7	24.0	23.1	22.8	22.7	22.8									

Crest Stages:					
	Date	1-7-61	1-15-61	1-22-61	1-26-61
	Time	0300	0500	0400	0400
	Stage	25.4	25.3	25.3	25.3

NR - No Record

TABLE 308

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE

In feet

Date	19[illegible]		19[illegible]-61						Date	19[illegible]		19[illegible]-61					
	Nov.	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	19.5	20.0	20.4	20.8	19.6	18.2	18.4	18.3	17	19.9	20.4	20.4	19.9	18.4	17.4	18.7	17.7
2	19.6	20.1	20.3	20.8	19.3	18.4	18.4	18.0	18	20.0	20.3	20.4	19.9	18.4	16.8	18.6	17.8
3	19.7	20.4	20.0	20.5	19.0	18.4	18.2	17.8	19	20.0	20.1	20.5	19.9	18.6	16.9	18.7	17.9
4	19.7	20.6	20.1	20.6	18.9	18.1	18.1	18.0	20	19.9	20.2	20.6	19.8	18.6	17.3	18.6	17.9
5	19.8	20.5	20.4	20.6	18.9	17.8	18.2	17.9	21	19.7	20.3	20.5	19.7	18.6	17.3	18.7	17.8
6	19.9	20.3	20.4	20.4	18.9	17.8	18.3	18.3	22	19.6	20.3	20.5	19.7	18.5	17.7	18.8	17.6
7	19.9	20.4	20.3	20.3	18.9	17.9	18.8	18.2	23	19.8	20.3	20.7	19.7	18.5	18.1	18.8	17.7
8	20.0	20.7	20.3	20.3	18.7	17.7	19.1	18.1	24	19.9	20.3	20.3	19.6	18.5	18.5	18.8	17.9
9	20.0	20.6	20.2	20.2	18.5	17.8	19.1	17.9	25	19.9	20.3	20.4	19.7	18.5	18.5	18.9	18.0
10	20.0	20.6	20.1	20.1	18.4	17.9	19.0	18.0	26	19.7	20.3	20.6	19.8	18.7	18.3	18.8	18.1
11	20.0	20.6	20.3	20.1	18.4	18.0	18.9	18.1	27	19.6	20.2	20.7	19.6	18.8	18.3	18.7	17.7
12	20.0	20.5	20.4	20.0	18.4	17.6	18.9	18.2	28	19.7	20.2	20.9	19.5	18.8	18.3	18.6	17.6
13	20.0	20.3	20.6	19.9	18.4	17.7	18.8	18.1	29	19.7	20.3	20.9		18.6	18.3	18.7	17.7
14	20.0	20.3	20.7	19.8	18.3	17.8	18.9	17.9	30	19.9	20.4	20.9		18.4	18.3	18.6	17.8
15	20.2	20.4	20.7	19.8	18.2	17.7	18.8	17.8	31		20.4	20.9		18.4		18.5	
16	20.0	20.4	20.4	19.9	18.2	17.6	18.7	17.7									

Crest Stages:	Date	12-8-60	1-22-61
	Time	0830	0600
	Stage	20.7	21.0

NR — No Record

TABLE 309

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

In feet

Date	19[illegible]		19[illegible]-61						Date	19[illegible]		19[illegible]-61					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	14.4	15.[illegible]	15.4	15.8	14.5	13.1	13.6	13.2	17	14.9	15.4	15.4	14.9	13.1	12.6	13.4	12.6
2	14.4	15.1	15.3	15.7	14.4	13.3	13.1	13.0	18	14.9	15.3	15.4	14.9	13.2	12.5	13.4	12.6
3	14.6	15.3	15.1	15.5	14.0	13.3	12.9	12.8	19	15.0	15.2	15.5	14.8	13.4	12.4	13.6	12.6
4	14.6	15.5	15.1	15.6	13.8	13.0	12.9	12.8	20	14.9	15.3	15.6	14.8	13.5	12.4	13.6	12.6
5	14.7	15.5	15.4	15.6	13.8	12.7	13.0	13.1	21	14.8	15.3	15.6	14.7	13.4	12.4	13.5	12.6
6	14.8	15.4	15.4	15.4	13.8	12.7	13.1	13.1	22	14.7	15.4	15.8	14.7	13.4	12.6	13.6	12.4
7	14.8	15.4	15.4	15.2	13.8	12.8	13.4	13.0	23	14.8	15.4	15.7	14.7	13.4	12.8	13.6	12.5
8	14.9	15.6	15.4	15.2	13.7	12.8	13.7	13.0	24	14.9	15.3	15.4	14.6	13.4	13.2	13.6	12.6
9	15.0	15.6	15.3	15.2	13.5	12.8	13.7	12.8	25	14.9	15.3	15.3	14.7	13.4	13.2	13.6	12.6
10	14.9	15.6	15.1	15.1	13.2	12.9	13.6	12.8	26	14.8	15.3	15.6	14.8	13.4	13.0	13.6	12.8
11	14.9	15.6	15.3	15.1	13.3	13.0	13.5	12.9	27	14.6	15.3	15.6	14.6	13.6	13.0	13.5	12.6
12	15.0	15.5	15.4	15.0	13.2	12.7	13.6	13.0	28	14.7	15.2	15.8	14.5	13.6	13.0	13.4	12.4
13	15.0	15.4	15.5	14.9	13.3	12.6	13.5	12.9	29	14.7	15.3	15.8		13.5	13.1	13.4	12.5
14	15.0	15.3	15.7	14.8	13.1	12.7	13.6	12.7	30	14.9	15.4	15.8		13.3	13.0	13.4	12.6
15	14.9	15.4	15.7	14.8	13.0	12.6	13.6	12.7	31		15.4	15.8		13.2		13.4	
16	14.9	15.4	15.5	14.9	13.0	12.6	13.5	12.6									

Crest Stages:	Date	1-22-61	[illegible]-1-[illegible]
	Time	1030	[illegible]0
	Stage	15.9	15.9

NR — No Record

TABLE 310

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	1.8	1.8	1.9	1.8	1.6	1.4	1.2	1.4	17	1.8	1.8	1.7	1.8	1.6	1.4	1.3	1.2
2	1.8	1.9	1.9	1.8	1.6	1.4	1.3	1.4	18	1.8	1.8	1.8	1.8	1.6	1.4	1.3	1.1
3	1.8	2.0	1.9	1.9	1.6	1.4	1.2	1.3	19	1.8	1.8	1.8	1.8	1.5	1.4	1.3	1.2
4	1.8	1.9	1.9	1.8	1.5	1.4	1.2	1.2	20	1.8	1.9	1.8	1.8	1.4	1.4	1.3	1.2
5	1.8	1.9	1.9	1.8	1.4	1.4	1.3	1.2	21	1.8	1.9	1.8	1.8	1.5	1.4	1.3	1.2
6	1.8	1.9	1.9	1.8	1.4	1.5	1.4	1.2	22	1.8	2.0	1.8	1.8	1.4	1.4	1.3	1.2
7	1.8	1.9	1.9	1.7	1.4	1.5	1.5	1.1	23	1.8	2.0	1.8	1.8	1.4	1.4	1.3	1.2
8	1.8	1.8	1.9	1.7	1.4	1.5	1.3	1.2	24	1.8	1.9	1.8	1.8	1.4	1.4	1.3	1.1
9	1.8	1.8	2.4	1.8	1.4	1.6	1.2	1.2	25	1.8	2.0	1.7	1.8	1.5	1.3	1.3	1.1
10	1.8	1.8	1.9	1.8	1.4	1.5	1.2	1.2	26	1.9	2.0	1.8	1.7	1.5	1.2	1.2	1.2
11	1.8	1.8	1.9	1.8	1.4	1.5	1.2	1.3	27	1.9	1.9	1.8	1.6	1.4	1.2	1.2	1.2
12	1.9	1.9	1.9	1.8	1.4	1.5	1.2	1.5	28	1.8	1.9	1.8	1.6	1.4	1.2	1.3	1.1
13	1.9	2.3	1.9	1.8	1.3	1.5	1.2	1.3	29	1.8	1.9	1.8		1.4	1.1	1.3	1.1
14	1.9	2.0	1.9	1.8	1.4	1.5	1.3	1.3	30	1.8	1.8	1.8		1.4	1.1	1.2	1.2
15	1.8	1.9	1.8	1.7	1.5	1.5	1.2	1.2	31		1.8	1.8		1.4		1.3	
16	1.8	1.8	1.9	1.8	1.6	1.5	1.3	1.2									

Crest Stages:			
	Date	12-13-60	1-9-61
	Time	1200	1200
	Stage	2.3	2.4

NR — No Record

TABLE 311

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIVERBANK

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	73.7	73.7	73.7	73.8	73.3	73.2	73.1	73.6	17	73.7	73.7	73.9	73.5	73.3	73.2	73.7	73.4
2	73.7	73.8	73.8	73.8	73.3	73.1	73.1	73.7	18	73.7	73.6	73.6	73.6	73.4	73.2	73.7	73.4
3	73.7	74.0	73.9	74.0	73.3	73.2	73.1	73.7	19	73.7	73.6	73.6	73.6	73.4	73.1	73.6	73.5
4	73.7	74.0	73.9	73.9	73.3	73.1	73.1	73.6	20	73.7	73.7	73.6	73.5	73.3	73.1	73.7	73.4
5	73.8	74.0	73.9	73.6	73.2	73.2	73.1	73.6	21	73.7	73.9	73.6	73.5	73.2	73.2	73.7	73.5
6	73.8	73.9	73.9	73.6	73.2	73.2	73.2	73.5	22	73.6	73.9	73.6	73.5	73.2	73.2	73.7	73.5
7	73.7	73.9	73.9	73.5	73.1	73.3	73.4	73.6	23	73.7	74.0	73.6	73.5	73.2	73.3	73.6	73.5
8	73.7	73.9	73.9	73.5	73.1	73.3	73.3	73.5	24	73.7	74.0	73.6	73.5	73.2	73.3	73.6	73.4
9	73.7	73.7	74.1	73.5	73.1	73.3	73.2	73.5	25	73.6	74.0	73.5	73.5	73.2	73.2	73.6	73.5
10	73.7	73.6	74.6	73.5	73.1	73.3	73.3	73.6	26	73.8	74.0	73.7	73.5	73.3	73.2	73.6	73.4
11	73.7	73.6	74.1	73.5	73.1	73.2	73.6	73.6	27	73.8	74.0	74.0	73.4	73.3	73.1	73.6	73.5
12	73.7	73.6	73.9	73.6	73.0	73.2	73.7	73.6	28	73.7	74.0	73.8	73.4	73.2	73.1	73.6	73.5
13	73.8	73.9	73.9	73.5	73.0	73.2	73.7	73.6	29	73.7	74.0	73.6		73.1	73.1	73.6	73.6
14	73.8	74.6	73.9	73.5	73.0	73.2	73.7	73.5	30	73.7	73.9	73.8		73.1	73.1	73.6	73.5
15	73.7	74.2	73.9	73.5	73.1	73.2	73.7	73.5	31		73.8	73.8		73.2		73.6	
16	73.7	73.9	73.8	73.5	73.2	73.2	73.7	73.4									

Crest Stages:					
	Date	12-14-60	1-10-61	1-27-61	2-3-61
	Time	1200	0001	0300	0400
	Stage	74.6	74.7	74.0	74.1

NR — No Record

TABLE 312

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIPON

In feet

Date	19[illegible]		1[illegible]						Date	1960		1961					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	37.6	37.6	37.6	38.1	37.4	37.1	37.1	36.8	17	37.[illegible]	38.0	37.8	37.5	37.2	37.0	36.9	36.6
2	37.6	37.8	37.8	38.0	37.4	37.1	37.1	36.9	18	37.8	37.8	37.8	37.5	37.2	36.9	37.0	36.6
3	37.6	37.6	37.6	38.1	37.3	37.0	37.0	36.8	19	37.[illegible]	37.7	37.7	37.5	37.2	36.9	37.0	36.6
4	37.7	37.9	37.9	38.2	37.3	36.9	37.0	36.9	20	37.6	37.7	37.7	37.5	37.2	37.0	37.0	36.6
5	37.6	38.0	37.9	38.0	37.3	37.0	37.0	36.9	21	37.[illegible]	37.8	37.7	37.5	37.1	37.0	37.1	36.6
6	37.[illegible]	38.0	37.9	37.8	37.2	37.3	37.1	36.8	22	37.6	37.8	37.7	37.5	37.1	37.1	37.0	36.6
7	37.8	37.9	37.9	37.7	37.2	37.0	37.3	36.8	23	37.6	37.9	37.7	37.5	37.1	37.2	37.0	36.6
8	37.[illegible]	37.9	37.9	37.6	37.2	37.0	37.3	36.7	24	37.8	37.9	37.7	37.5	37.1	37.3	37.0	36.5
9	37.[illegible]	37.9	37.9	37.6	37.2	37.0	37.1	36.7	25	37.6	37.9	37.7	37.5	37.1	37.4	36.9	36.5
10	37.7	37.8	38.0	37.6	37.2	37.0	37.0	36.7	26	37.8	37.9	37.7	37.5	37.1	37.3	36.8	36.6
11	37.8	37.8	38.3	37.6	37.1	37.0	36.8	36.8	27	37.8	37.9	37.9	37.5	37.2	37.2	36.8	36.5
12	37.8	37.7	38.1	37.5	37.1	36.9	36.8	36.8	28	37.8	37.9	38.2	37.4	37.2	37.1	37.0	36.6
13	37.8	37.7	37.9	37.5	37.1	36.9	36.9	36.7	29	37.8	37.9	37.9		37.1	37.0	37.0	36.7
14	37.8	37.9	37.9	37.5	37.1	37.0	36.9	36.8	30	37.8	37.9	37.9		37.1	37.0	36.9	36.7
15	37.8	38.3	37.9	37.5	37.1	37.0	37.0	36.7	31		37.9	38.1		37.1		36.8	
16	37.8	38.2	37.8	37.5	37.1	37.0	36.9	36.7									

Crest Stages:	Date	1-11-61	1-28-61	2-3-61
	Time	1100	0900	2300
	Stage	38.4	38.4	38.4

E-Estimated NR-No Record

TABLE 313

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT KOETITZ RANCH

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	26.9	27.0	27.1	27.3	26.6	26.4	26.4	26.0	17	27.0	27.3	27.1	26.8	26.4	26.2	26.1	25.7
2	26.9	27.0	27.1	27.3	26.6	26.3	26.3	26.0	18	27.0	27.1	27.1	26.8	26.4	26.2	26.1	25.8
3	26.8	27.0	27.0	27.2	26.6	26.2	26.3	26.0	19	27.0	27.0	27.0	26.8	26.4	26.1	26.3	25.8
4	26.9	27.1	27.1	27.5	26.6	26.1	26.2	26.0	20	27.0	27.0	26.9	26.8	26.4	26.1	26.2	25.8
5	27.0	27.2	27.1	27.3	26.6	26.1	26.2	26.0	21	27.0	27.0	26.9	26.8	26.3	26.1	26.4	25.8
6	27.1	27.2	28.1	27.1	26.5	26.5	26.2	26.0	22	27.0	27.1	26.9	26.8	26.2	26.2	26.4	25.8
7	27.0	27.2	27.1	27.0	26.5	26.2	26.4	25.9	23	27.0	27.2	26.9	26.8	26.2	26.4	26.3	25.8
8	27.0	27.2	27.1	26.9	26.4	26.2	26.6	25.9	24	27.0	27.2	26.9	26.7	26.3	26.6	26.2	25.8
9	27.0	27.2	27.1	26.8	26.4	26.2	26.3	25.9	25	27.0	27.2	26.9	26.7	26.4	26.6	26.2	25.7
10	27.0	27.1	27.2	26.8	26.4	26.3	26.2	25.9	26	27.0	27.2	27.0	26.7	26.4	26.5	26.0	NR
11	27.0	27.0	27.5	26.8	26.3	26.3	26.2	26.0	27	27.0	27.2	27.0	26.7	26.4	26.5	26.0	NR
12	27.0	27.0	27.4	26.8	26.3	26.2	26.1	26.0	28	27.0	27.2	27.4	26.7	26.5	26.4	26.1	NR
13	27.1	27.0	27.2	26.8	26.3	26.2	26.2	26.0	29	27.1	27.2	27.3		26.4	26.3	26.2	NR
14	27.1	27.0	27.2	26.8	26.2	26.2	26.2	25.9	30	27.0	27.2	27.1		26.4	26.3	26.1	NR
15	27.1	27.4	27.1	26.8	26.3	26.3	26.2	25.9	31		27.2	27.3		26.4		26.0	
16	27.1	27.5	27.1	26.8	26.3	26.3	26.2	25.8									

Crest Stages:	Date	12-16-60	1-11-61	1-28-61	2-4-61
	Time	0100	1800	1500	0700
	Stage	27.5	27.6	27.5	27.5

NR-No Record

TABLE 31a

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR VERNALIS

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	11.2	11.7	12.1	12.5	11.1	9.8	9.6	9.8	17	11.7	12.2	12.1	11.6	9.8	9.2	9.9	9.1
2	11.2	11.8	12.0	12.5	11.0	9.9	9.6	9.6	18	11.7	12.1	12.1	11.6	10.0	9.1	9.9	9.1
3	11.4	11.9	11.8	12.4	10.7	9.9	9.5	9.4	19	11.7	11.9	12.2	11.5	10.1	9.0	9.9	9.1
4	11.5	12.2	11.7	12.3	10.4	9.6	9.5	9.4	20	11.7	12.0	12.2	11.5	10.2	9.0	9.9	9.2
5	11.6	12.2	12.0	12.4	10.4	9.4	9.5	9.6	21	11.5	12.0	12.2	11.4	10.1	9.0	10.0	9.1
6	11.7	12.1	12.0	12.2	10.5	9.4	9.6	9.7	22	11.4	12.0	12.3	11.4	10.0	9.2	10.2	9.0
7	11.7	12.0	12.1	12.0	10.5	9.4	9.9	9.5	23	11.5	12.1	12.3	11.4	9.9	9.4	10.1	9.0
8	11.7	12.3	12.0	11.9	10.4	9.4	10.2	9.5	24	11.6	12.0	12.1	11.3	10.0	9.6	10.1	9.1
9	11.8	12.3	12.0	11.9	10.2	9.4	10.2	9.4	25	11.7	12.0	12.0	11.3	10.0	9.7	10.1	9.1
10	11.8	12.3	11.8	11.8	9.9	9.5	10.2	9.3	26	11.6	12.0	12.2	11.4	10.1	9.6	10.1	9.3
11	11.8	12.3	12.0	11.8	9.9	9.5	10.0	9.3	27	11.4	12.0	12.3	11.3	10.3	9.6	10.0	9.2
12	11.8	12.2	12.1	11.7	9.9	9.3	10.1	9.4	28	11.4	12.0	12.4	11.1	10.3	9.6	9.9	9.0
13	11.8	12.1	12.2	11.6	10.0	9.2	10.0	9.4	29	11.4	12.0	12.5		10.2	9.6	10.0	9.0
14	11.8	12.0	12.3	11.5	9.8	9.3	10.1	9.2	30	11.6	12.1	12.5		10.0	9.6	9.9	9.1
15	11.7	12.1	12.3	11.5	9.7	9.2	10.1	9.1	31		12.1	12.5		9.9		9.8	
16	11.7	12.2	12.2	11.6	9.8	9.2	10.0	9.0									

Crest Stages:	Date	1-29-61
	Time	1700
	Stage	12.6

NR — No Record

TABLE 31b

DAILY MEAN GAGE HEIGHT
CALAVERAS RIVER AT JENNY LIND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1		.76	1.55	1.7[illegible]	[illegible].56	.71	0.89	1.94	17	NF	1.69	1.54	1.05	1.52	[illegible].6[illegible]	[illegible].96	
2		1.92	1.54	1.90	[illegible].56	.70	0.96	[illegible].64	18	NF	1.58	1.55	[illegible].90	1.41	[illegible].6[illegible]	[illegible].97	
3		[illegible].44	1.52	[illegible].18	0.56	0.70	0.94	[illegible].75	19	NF	1.57	1.55	0.72	1.22	0.6[illegible]	0.97	
4		[illegible].30	1.52	[illegible].21	[illegible].56	[illegible].69	1.11	[illegible].29	20	NF	1.55	1.54	0.64	1.1[illegible]	0.6[illegible]	0.98	
5		[illegible].09	1.51	2.06	0.55	[illegible].67	1.08	2.98	21	NF	1.55	1.54	[illegible].64	1.03	0.63	0.98	
6	NO	1.95	1.51	1.96	0.58	0.65	1.10	[illegible].83	22	NF	1.57	1.55	0.63	[illegible].97	0.65	[illegible].97	NO
7		1.85	1.51	1.90	[illegible].61	[illegible].64	1.35	[illegible].26	23	NF	1.56	1.58	0.62	0.9[illegible]	[illegible].75	0.97	
8	FLOW	1.78	1.50	1.85	[illegible].6[illegible]	[illegible].64	1.13	[illegible].09	24	NF	1.54	1.56	[illegible].60	0.9[illegible]	0.8[illegible]	0.97	FLOW
9		1.7[illegible]	1.53	1.82	[illegible].61	[illegible].6[illegible]	0.97	2.94	25	NF	1.55	1.61	[illegible].60	1.17	[illegible].80	0.97	
10		[illegible].69	1.54	1.80	[illegible].60	[illegible].63	0.95	[illegible].89	26	NF	1.54	1.71	0.58	1.10	0.75	0.96	
11		1.67	1.54	1.80	[illegible].6[illegible]	[illegible].63	[illegible].9[illegible]	[illegible].84	27	NF	1.54	1.78	0.57	1.1[illegible]	[illegible].76	[illegible].96	
12		[illegible].64	1.[illegible]	1.85	[illegible].59	[illegible].6[illegible]	[illegible].93	[illegible].77	28	1.56A	1.[illegible]	1.[illegible]7	0.57	1.[illegible]0	[illegible].[illegible]	[illegible].9[illegible]	
13		.63	.[illegible]	[illegible].07	[illegible].59	[illegible].6[illegible]	[illegible].93	1.6[illegible]	29	1.89	1.53	1.[illegible]8		[illegible].9[illegible]	[illegible].[illegible]3	[illegible].95	
14		.61	1.[illegible]	[illegible].[illegible]1	0.59	[illegible].66	[illegible].34	1.1[illegible]	30	1.78	1.[illegible]3	1.84		0.79	[illegible].86	.93	
15		1.[illegible]9	1.[illegible]	1.[illegible]0	0.9[illegible]	[illegible].65	[illegible].3[illegible]	1.0[illegible]	31		1.54	1.83		0.74		[illegible].[illegible]1	
16		1.[illegible]9	1.[illegible]9	1.[illegible]4	1.[illegible]0	[illegible].64	[illegible].3[illegible]	[illegible].8A									

Crest Stages:	Date	[illegible]-1-61
	Time	1800
	Stage	3.76

E - Estimated NR - No Record
NF - No Flow A - Maximum gage height for period of flow.

TABLE 31

DAILY MEAN GAGE HEIGHT
MOKELUMNE RIVER AT WOODBRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan.	Feb	Mar	Apr	May	June
1	NR	5.49	5.32	6.69	3.40	3.47	3.20	3.28	17	5.32	NR	5.50	4.76	4.08	3.25	3.29	3.37
2	NR	5.77	5.42	6.68	3.37	3.45	3.24	3.27	18	5.32	NR	5.51	NR	4.22	3.25	3.29	3.42
3	NR	6.50	5.50	6.95	3.37	3.45	3.27	3.32	19	5.32	NR	5.54	NR	4.20	3.22	3.27	3.45
4	NR	6.57	NR	6.29	3.41	3.39	3.26	3.35	20	5.30	NR	5.51	NR	4.05	3.19	3.28	3.40
5	NR	6.59	5.53	5.03	3.40	3.36	3.25	3.37	21	5.29	NR	5.55	NR	3.93	3.18	3.28	3.44
6	NR	6.60	5.54	4.80	3.43	3.31	3.24	3.37	22	5.27	5.31	5.55	NR	3.85	3.18	3.31	3.48
7	NR	6.60	5.53	4.92	3.50	3.30	3.25	3.40	23	5.26	5.31	5.52	4.72	3.62	3.18	3.31	3.45
8	NR	5.85	5.51	4.99	3.57	3.29	3.27	3.42	24	5.32	5.32	5.51	4.71	3.68	3.21	3.31	3.43
9	4.27	5.39	5.50	5.05	3.58	3.26	3.26	3.42	25	5.33	5.29	5.63	4.72	3.83	3.23	3.29	3.44
10	7.93	5.43	5.50	4.90	3.70	3.23	3.26	3.42	26	5.59	5.28	6.02	4.72	3.83	3.23	3.26	3.45
11	6.23	5.39	5.50	4.83	3.69	3.23	3.26	3.43	27	5.52	5.27	6.66	3.98	3.83	3.22	3.26	3.44
12	5.58	5.35	5.50	4.86	3.65	3.23	3.26	3.42	28	5.38	5.29	6.22	3.36	3.79	3.22	3.25	3.35
13	5.58	5.31	5.49	4.76	3.58	3.22	3.27	3.40	29	5.37	5.30	5.74		3.59	3.20	3.31	3.36
14	5.49	NR	5.49	4.74	3.40	3.21	3.27	3.40	30	5.37	5.30	5.63		3.47	3.18	3.32	3.37
15	5.40	NR	5.49	4.77	3.55	3.20	3.31	3.42	31		5.29	6.57		3.44		3.28	
16	5.35	NR	5.50	4.78	3.96	3.21	3.30	3.37									

Crest Stages		
	Date	11-10-6[illegible]
	Time	1500
	Stage	13.47

E - Estimated NR - No Record

TABLE 317

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT MICHIGAN BAR

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	2.09	2.53	2.41	2.80	2.62	3.27	3.15	2.74	17	2.46	2.46	2.37	2.99	3.52	2.99	3.16	2.30
2	2.08	3.22	2.39	3.05	2.62	3.28	3.20	2.77	18	2.45	2.45	2.37	2.91	3.45	2.98	3.13	2.29
3	2.10	3.35	2.35	3.07	2.63	3.31	3.13	2.76	19	2.48	2.47	2.37	2.85	3.25	2.98	3.12	2.45
4	2.12	2.99	2.33	3.03	2.65	3.31	3.10	2.73	20	2.54	2.47	2.36	2.80	3.25	2.94	3.11	2.45
5	2.11	2.80	2.38	2.87	2.66	3.35	3.07	2.68	21	2.48	2.46	2.36	2.78	3.30	2.91	3.11	2.43
6	2.13	2.69	2.39	2.77	2.68	3.31	3.06	2.65	22	2.40	2.44	2.36	2.75	3.25	3.03	3.08	2.42
7	2.14	2.60	2.38	2.72	2.74	3.25	3.18	2.61	23	2.35	2.44	2.36	2.74	3.31	3.27	3.04	2.49
8	2.13	2.55	2.40	2.69	2.73	3.20	3.14	2.59	24	2.32	2.44	2.37	2.71	3.43	3.27	3.00	2.46
9	2.19	2.52	2.40	2.72	2.72	3.13	3.11	2.58	25	2.32	2.43	2.37	2.69	3.70	3.08	2.96	2.41
10	2.23	2.52	2.39	2.77	2.85	3.10	3.11	2.55	26	2.70	2.43	2.47	2.67	3.56	3.06	2.93	2.38
11	2.21	2.53	2.38	2.95	2.80	3.07	3.32	2.50	27	3.13	2.43	2.58	2.66	3.48	3.04	2.89	2.36
12	2.22	2.51	2.38	3.39	2.77	3.05	3.33	2.50	28	2.80	2.43	2.68	2.64	3.54	3.05	2.85	2.27
13	2.38	2.48	2.38	3.14	2.76	3.15	3.28	2.48	29	2.62	2.40	2.66		3.39	3.09	2.82	2.20
14	2.86	2.46	2.38	2.98	2.73	3.05	3.24	2.42	30	2.51	2.38	2.60		3.30	3.12	2.78	2.20
15	2.78	2.47	2.37	2.96	2.27	3.04	3.22	2.38	31		2.38	2.87		3.27		2.75	
16	2.59	2.46	2.38	3.06	3.40	2.99	3.18	2.36									

Crest Stages:								
	Date	11-14-60	11-27-60	12-2-60	1-31-61	2-2-61	2-12-61	3-15-61	3-25-61
	Time	1800	0715	1600	0845	1300	1045	0600	1600
	Stage	2.95	3.29	3.71	3.50	3.41	3.53	3.78	3.58

E - Estimated NR - No Record

TABLE 318

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT M CONNELL

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	NF	29.99	29.7[illegible]	31.71	29.[illegible]	[illegible].8	[illegible].4[illegible]	29.8[illegible]	17	29.97	29.[illegible]	[illegible].75	[illegible].83	[illegible]1.41	[illegible].	[illegible].44	
2	NF	30.16	29.78	[illegible].[illegible]	29.97	30.81	[illegible].63	29.77	18	29.86	29.86	29.74	30.62	31.74	[illegible].7	[illegible]0.39	
3	NF	31.39	29.79	[illegible].16	29.95	30.81	[illegible].56	29.7[illegible]	19	29.77	29.89	[illegible].74	[illegible].4	1.[illegible]	[illegible].	[illegible].15	
4	NF	31.01	29.67	31.36	29.95	30.88	[illegible].46	29.60	20	29.85	29.90	29.74	[illegible]1.33	[illegible].[illegible]	[illegible].4	[illegible].21	
5	NF	30.58	29.62	30.91	29.99	30.91	30.41	29.62	21	29.99	29.[illegible]0	29.7[illegible]	[illegible]0.[illegible]3	3.93	[illegible].	[illegible].21	
6	NF	30.36	29.70	30.59	30.00	30.87	30.41	29.53	22	29.87	29.[illegible]	29.73	[illegible]0.19	30.[illegible]	[illegible]0.[illegible]3	[illegible].[illegible]	NO
7	NF	30.24	29.77	30.39	30.02	30.79	30.42	29.40A	23	29.78	29.86	29.72	[illegible]0.15	[illegible]0.[illegible]5	[illegible].49	[illegible].16	
8	NF	30.14	29.72	30.28	30.10	30.70	30.54	NF	24	29.57	29.85	29.72	[illegible]0.14	[illegible]0.[illegible]3	[illegible]0.[illegible]7	[illegible].[illegible]0	FLOW
9	NF	30.08	29.78	30.21	30.05	30.61	30.44	NF	25	29.41	29.85	29.74	30.11	[illegible]1.18	[illegible]0.[illegible]2	[illegible].14	
10	NF	30.03	29.79	30.22	30.06	30.52	30.39	NF	26	29.87	29.85	29.84	30.[illegible]8	31.55	[illegible].4[illegible]	[illegible].	
11	NF	30.02	29.74	30.42	30.21	30.46	30.49	NF	27	30.48	29.85	29.94	30.04	[illegible]1.25	[illegible]0.37	[illegible]0.[illegible]2	
12	NF	30.01	29.75	30.98	30.12	30.41	30.72	NF	28	30.65	29.[illegible]4	30.06	[illegible]0.[illegible]2	[illegible]1.25	[illegible]0.[illegible]5	9.97	
13	NF	29.98	29.72	31.33	30.08	30.40	30.71	NF	29	30.28	29.84	30.15		[illegible]1.17	[illegible]0.37	[illegible].92	
14	NF	29.95	29.72	30.85	30.06	30.48	30.63	NF	30	30.09	29.82	30.29		[illegible]0.37	30.43	[illegible].7	
15	30.09A	29.92	29.72	30.60	30.47	30.36	30.58	NF	31		29.74	30.58		[illegible]0.87		29.83	
16	30.15	29.90	29.72	30.58	31.70	30.30	30.54	NF									

Crest Stages:	Date	11-27-60	12-3-60	2-1-61	2-3-61	2-12-61	[illegible]-16-61	[illegible]-18-61	3-26-61
	Time	2300	0800	1000	1100	2400	1030	[illegible]700	0[illegible]45
	Stage	30.91	31.58	32.10	32.51	31.60	32.04	31.97	[illegible]1.70

E - Estimated NR - No Record
NF - No Flow A - Mean gage height for period of flow.

TABLE 319

DAILY MEAN GAGE HEIGHT
TULARE LAKE - DAILY ELEVATION

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8				LAKE DRY					24				LAKE DRY				
9									25								
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:	Date	
	Time	
	Stage	

E - Estimated NR - No Record

TABLE 320

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT SACRAMENTO WEIR

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr	May	June
1	17.50 16.42	20.36 19.53	18.94 18.19	[illegible]9	22.87 22.73	23.73	NR	19.25 18.07	17	19.08 18.60	19.45 18.33	18.74 17.95	30.30	25.78		19.70 18.88	18.04 16.63
2	17.69 16.48	20.16	18.70 18.02	28.32	22.78 22.62	23.30	18.29 17.33	19.71 18.75	18	18.75 18.11	20.54 18.65	18.73 17.91	29.89	26.69		19.72 18.95	17.68 16.39
3	17.61 16.65	24.59	18.59 17.83	28.89	22.60 22.31	23.07	18.80 17.74	19.92 19.16	19	18.72 17.79	21.27	18.51 17.89	29.10	26.97		19.84 19.02	17.26 16.01
4	17.66 16.53	20.11	18.59 17.82	29.63	22.19 21.91	23.13	18.69 17.96	20.10 19.49	20	19.09 18.03	22.56	18.43 17.84	28.11	26.77		19.61 19.02	17.14 16.05
5	17.68 16.54	25.66	18.55 17.91	30.19	22.00 21.76	23.33	18.67 17.77	20.02 19.28	21	18.88 18.20	22.15	18.22 17.68	27.10	26.68		19.69 19.28	17.24 16.15
6	17.94 16.60	24.06	18.35 17.89	29.90	21.94 21.60	NR	18.48 17.48	19.78 18.77	22	18.61 17.91	21.35	18.25 17.50	26.27	26.60	N O	19.80 19.09	17.70 16.73
7	17.77 16.71	NR	18.38 17.79	28.39	21.86 21.64	NR	18.07 17.34	19.40 18.49	23	18.37 17.65	20.72 20.32	18.20 17.41	25.55	26.30		19.55 18.86	17.90 16.55
8	17.58 16.63	NR	18.36 17.83	26.51	21.89 21.67	NR	18.17 17.57	19.33 18.26E	24	18.25 17.44	20.45 19.86	18.26 17.34	24.90	26.37	R E C	19.40 18.62	17.80 16.71
9	17.44 16.49	NR	18.43 17.78	24.95	21.83 21.60	NR	18.30 17.67	18.91 18.26E	25	18.25 17.42	19.95 19.43	18.35 17.51	24.37	26.79	O R D	19.29 18.67	18.15 16.98
10	17.33 16.53	NR	18.56 17.80	25.52	21.90	NR	18.35 17.67	18.79 17.91	26	18.64 17.72	19.64 19.11	18.88 17.59	23.74	27.32		19.30 18.67	18.65 17.18
11	17.45 16.58	NR	18.73 17.99	28.59	22.45	NR	18.60 17.64	18.79 17.73	27	20.45	19.63 18.95	18.81 17.98	23.34	27.38		19.18 18.45	18.73 17.33
12	17.91 16.70	NR	18.90 18.13	30.08	22.62 22.42	NR	19.18 18.43	18.73 17.40	28	22.35	19.36 18.77	19.14 18.00	23.07 22.94	27.07		19.23 18.38	18.62 17.16
13	18.32 17.27	NR	18.91 18.17	30.99	22.40 22.20	NR	19.55 18.87	18.38 17.03	29	21.40	19.30 18.63	19.64 18.62		26.69		19.24 18.17	18.51 17.03
14	18.37 17.56	NR	18.88 18.07	31.16	22.39 22.10	NR	19.57 18.88	18.19 16.86	30	20.45 20.02	19.13 18.42	19.66 18.96		25.73		18.91 17.89	18.23 16.88
15	19.10 17.97	19.36 NR	18.83 18.04	30.97	22.50	NR	19.74 18.89	18.14 16.74	31		19.09 18.29	20.98		24.70		19.01 17.89	
16	19.54 18.94	19.36 18.37	18.80 17.93	30.62	23.99	NR	19.48 18.73	18.07 16.64									

Crest		1960-61						
Stages:	Date	12-4-60	12-20-60	2-5-61	2-14-61	3-11-61	3-19-61	3-27-61
	Time	2000	2045	2015	1815	1615	1015	0545
	Stage	26.25	22.68	30.34	31.19	22.70	27.03	27.41

NR — No Record

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 321

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT SACRAMENTO

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	13.8[illegible] 12.[illegible]	1[illegible].63 1[illegible].20	15.16 13.99	19.91	18.26 17.8[illegible]	19.00 18.52	14.35 12.85	15.46 13.82	17	15.[illegible]3 14.11	1[illegible].[illegible]4 14.0[illegible]	14.92 13.71	25.02	20.[illegible]	15.61 14.44	15.67 14.41	14.59 12.73
2	14.09 12.34	16.90E 15.14	14.89 13.80	22.64	18.2[illegible] 17.[illegible]5	18.52 18.13	14.4[illegible] 12.95	15.[illegible]5 14.30	18	14.83 13.[illegible]9	1[illegible].40 14.[illegible]4	14.89 13.69	24.60	21.28	15.65 14.39	15.64 14.42	14.18 12.42
3	13.98 12.59	19.27	14.76 13.61	23.42	17.9[illegible] 17.51	18.34 17.89	14.89 13.45	15.87 14.[illegible]5	19	14.7[illegible] 13.43	17.23 15.[illegible]9	14.81 13.69	23.84	21.57	15.15 13.7[illegible]	15.[illegible]9 14.49	13.70 11.93
4	14.05 12.36	20.[illegible]8	14.73 13.56	24.13	17.71 17.22	18.36 17.91	14.76 13.28	15.99 14.97	20	1[illegible].10 13.[illegible]4	18.2[illegible] 17.[illegible]4	14.54 13.69	22.86	21.39	14.77 13.41	15.34 14.32	13.59 12.01
5	14.06 12.36	20.42	14.[illegible]2 13.60	24.73	17.6[illegible] 17.05	18.58 18.12	14.[illegible]2 13.33	15.8[illegible] 14.83	21	14.3[illegible] 13.80	17.79 17.40	14.28 13.45	21.89	21.27	14.29 13.13	15.29 14.58	13.75 12.20
6	14.3[illegible] 12.41	19.13	14.37 13.58	24.71	17.[illegible]0 17.02	19.02 18.47	14.[illegible]1 13.13	15.[illegible]8 14.35	22	14.[illegible]9 13.49	17.08 1[illegible].[illegible]4	14.36 13.21	21.12	21.23	14.32 12.95	15.54 14.48	14.25 12.93
7	14.13 12.[illegible]	18.18 17.90	14.46 13.45	23.36	17.43 16.90	18.68 17.93	14.08 12.80	15.33 14.09	23	14.4[illegible] 13.27	16.47 15.90	14.36 13.15	20.44	20.97	14.05 13.21	15.30 14.28	14.47 12.[illegible]
8	13.90 12.44	17.32 1[illegible].99	14.46 13.56	21.55	17.45 16.94	18.09 17.44	14.07 13.07	15.3[illegible] 13.82	24	14.37 13.07	1[illegible].25 15.[illegible]4	14.45 13.[illegible]9	19.92 19.77	20.90	14.13 13.20	15.20 14.05	14.32 12.82
9	13.[illegible]6 12.27	16.48 1[illegible].[illegible]3	14.61 13.54	20.04	17.43 16.85	17.73 16.97	14.28 13.30	15.08 13.64	25	14.51 13.14	15.83 15.11	14.57 13.2[illegible]	19.51 19.31	21.33	14.25 13.30	15.14 14.20	14.[illegible]9 13.12
10	13.50 12.25	15.[illegible]4 15.42	14.61 13.52	20.04	17.[illegible]3 16.99	17.33 16.47	14.42 13.24	15.01 13.58	26	14.7[illegible] 13.4[illegible]	15.[illegible]5 14.76	15.19 13.38	19.00 18.7[illegible]	21.89	14.31 13.22	15.19 13.95	15.20 13.42
11	13.[illegible]8 12.27	15.57 14.84	14.78 13.68	22.90	18.23 17.[illegible]1	1[illegible].91 16.40	14.45 13.24	15.08 13.58	27	1[illegible].94 14.88	15.59 14.63	15.0[illegible] 13.81	18.72 18.46	21.97	14.17 13.17	15.09 13.98	15.25 13.44
12	14.25 12.45	15.37 14.51	14.99 13.88	24.50	18.16 17.70	1[illegible].82 16.10	15.06 13.90	15.11 13.2[illegible]	28	17.80 17.43	15.33 14.46	15.18 13.7[illegible]	18.38 18.00	21.66	13.93 12.70	15.26 13.98	15.16 13.21
13	14.57 13.07	15.21 14.24	15.05 13.90	25.51	18.02 17.54	16.42 15.60	15.3[illegible] 14.28	14.77 12.91	29	17.27 1[illegible].63	15.37 14.39	15.72 14.23		21.34	14.07 12.6[illegible]	15.38 13.86	15.00 13.04
14	14.42 13.23	15.27 14.13	15.01 13.84	25.80	18.10 17.44	16.34 15.48	15.39 14.37	14.57 12.69	30	1[illegible].48 15.[illegible]0	15.2[illegible] 14.24	15.71 14.69		20.54	13.99 12.57	15.10 13.59	14.66 12.84
15	14.76 13.57	15.45 14.12	14.99 13.79	25.68	18.41 17.69	16.05 15.49	15.[illegible]7 14.43	14.57 12.66	31		15.25 14.09	18.19E 15.00		19.55		15.20 13.57	
16	15.28 14.21	15.50 14.12	14.98 13.72	25.35	19.94E 18.1[illegible]	15.76 14.67	15.50 14.29	14.58 12.68									

Crest Stages:	Date	12-4-60	-5-61	-14-61	-19-61	-26-61
	Time	1915	[illegible]215	1945	1[illegible]00	[illegible]000
	Stage	[illegible]0.97	24.97	25.89	21.71	[illegible]2.11

NR — No Record

NOTE : Single daily values indicate daily mean stage only

E - Estimated
* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 3

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER NEAR FREEPORT

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	13.42 11.44	[illegible]	[illegible]	12.[illegible]	[illegible]	[illegible]	[illegible]	14.[illegible]	17	[illegible]	[illegible]	14.14 14.[illegible]	2[illegible].4 [illegible].1	13.[illegible]	14.4 14.[illegible]	14.[illegible]4	14.11 11.[illegible]
2	13.[illegible] 11.51	[illegible]	[illegible]	14.[illegible] 13.[illegible]	[illegible]	[illegible]	13.[illegible]	[illegible]	18	14.[illegible] [illegible]	[illegible]	14.1 [illegible]	[illegible]	12.[illegible] 13.[illegible]	14.[illegible] 12.88	14.[illegible] 12.[illegible]	[illegible] 11.4[illegible]
3	13.49 11.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.18 [illegible]	[illegible]	19	14.[illegible] 14.11	14.[illegible]	[illegible] 14.22	[illegible] 2[illegible].1	12.47 12.1	14.[illegible] 12.[illegible]	14.[illegible] 12.84	[illegible].2 11.[illegible]
4	13.57 11.43	12.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.[illegible]	[illegible]	20	14.[illegible] 14.[illegible]	[illegible]	[illegible] 12.[illegible]	[illegible]	12.[illegible] [illegible]	13.[illegible] 12.1	14.[illegible] 12.[illegible]	13.13 11.[illegible]
5	13.[illegible] 11.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	14.[illegible] [illegible]	[illegible]	[illegible] 12.[illegible]	[illegible]	12.23 [illegible]	13.4[illegible] 11.[illegible]	13.[illegible] 12.[illegible]	[illegible] 11.44
6	[illegible].83 11.4[illegible]	[illegible]	[illegible] 14.13	[illegible]	[illegible]	[illegible]	[illegible].91	14.[illegible]	22	[illegible] 12.18	[illegible]	13.[illegible] 11.[illegible]	12.[illegible]	12.18 [illegible]	[illegible] 11.[illegible]	14.1 12.[illegible]	[illegible].84 12.[illegible]
7	[illegible] [illegible]	[illegible]	[illegible] [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible] 12.92	14.[illegible]	14.[illegible] 11.[illegible]	[illegible]	[illegible] [illegible]	[illegible]	14.4 12.[illegible]	14.[illegible] 11.[illegible]
8	[illegible] 11.48	[illegible]	13.43 12.11	[illegible]	[illegible]	[illegible]	[illegible]	14.3[illegible]	24	[illegible] [illegible]	[illegible]	13.8[illegible] 11.[illegible]	[illegible]	12.1 [illegible]	[illegible]	14.1 12.3[illegible]	13.81 11.[illegible]
9	13.[illegible] 11.32	14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	13.[illegible] 11.[illegible]	14.[illegible]	[illegible] 13.23	[illegible]	[illegible] [illegible]	13.[illegible] 11.[illegible]	14.3 12.[illegible]	14.[illegible] [illegible]
10	12.[illegible] 11.24	14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26	14.11 12.24	14.31 12.94	14.[illegible] 12.63	[illegible]	12.74 [illegible]	13.43 11.[illegible]	14.1 12.3[illegible]	14.[illegible] 12.[illegible]
11	[illegible].64 11.2[illegible]	14.22 12.98	[illegible] 12.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	14.8[illegible] 12.[illegible]	[illegible]	[illegible] [illegible]	[illegible]	12.[illegible] 18.44	13.42 11.[illegible]	[illegible] 12.4	14.74 12.32
12	[illegible] 11.[illegible]	[illegible]	[illegible] 12.83	[illegible]	[illegible]	[illegible]	[illegible]	14.47 12.07	28	[illegible] 14.[illegible]	14.28 13.81	[illegible] 12.4	[illegible]	18.41 18.13	13.24 11.[illegible]	14.[illegible] 12.[illegible]	[illegible] 12.[illegible]
13	[illegible] 12.62	14.17 12.[illegible]	14.11 12.30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29	[illegible] 14.3[illegible]	[illegible]	[illegible] 12.[illegible]		18.21 [illegible]	13.4[illegible] 11.[illegible]	[illegible] 12.43	14.49 11.9[illegible]
14	[illegible] 12.04	[illegible]	[illegible] 12.30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	[illegible] 13.[illegible]	14.42 12.[illegible]	[illegible] [illegible]		[illegible] [illegible]	13.47 11.4[illegible]	[illegible] 12.1[illegible]	[illegible] 11.[illegible]
15	13.71 12.27	14.71 12.[illegible]	14.13 12.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31		[illegible]	[illegible] [illegible]		[illegible] [illegible]		14.4 12.1[illegible]	
16	[illegible] 12.[illegible]	[illegible]	[illegible] 12.19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]									

Crest Stages: Date / Time / Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 323

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT CLARKSBURG

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.46 14.25	18.58 15.94	17.31 14.97	20.29 17.37	18.32 16.97	18.58 17.43	16.78 14.31	17.63 14.91	17	16.99 15.12	17.84 15.07	17.10 14.70	22.58 22.17	19.70 18.36	17.50 15.27	17.50 15.10	17.13 14.53
2	16.68 14.27	18.19 16.10	16.99 14.90	21.28 20.02	18.45 17.02	18.30 17.10	16.80 14.27	17.66 15.05	18	17.00 14.92	18.14 15.13	17.05 14.67	22.30 21.75	19.91 18.19	17.67 15.35	17.45 15.15	16.72 14.21
3	16.52 14.50	19.84 16.78	16.89 14.68	21.55 20.78	18.15 17.05	18.26 16.97	17.13 14.73	17.59 15.25	19	17.00 14.67	18.52 15.89	16.70 14.69	21.79 21.10	20.07 19.34	17.15 14.75	17.53 15.23	16.16 13.79
4	16.61 14.18	20.07 18.90	16.74 14.60	21.95 21.24	17.96 16.81	18.38 16.97	17.00 14.38	17.58 15.46	20	17.23 14.65	18.77 16.96	16.55 14.58	21.16 20.31	20.01 19.17	16.74 14.55	16.78 14.83	16.16 13.83
5	16.62 14.20	19.67 18.97	16.55 14.62	22.28 21.71	18.12 16.62	18.52 17.17	16.88 14.43	17.36 15.50	21	17.15 14.87	18.38 17.06	16.49 14.64	20.53 19.54	19.87 19.10	16.36 14.36	16.90 14.93	16.28 14.03
6	16.88 14.22	18.78 18.10	16.14 14.55	22.39 21.94	18.06 16.75	19.11 17.67	16.75 14.37	17.36 15.12	22	16.92 14.67	17.70 16.60	16.64 14.50	20.15 19.05	19.79 19.00	16.48 14.27	16.90 15.00	16.89 14.80
7	16.69 14.32	18.37 17.26	16.25 14.37	21.51 20.53	17.79 16.49	18.73 17.09	16.19 13.96	17.07 15.00	23	16.77 14.47	17.22 16.02	16.71 14.52	19.50 18.40	19.66 18.82	16.06 14.24	16.78 14.87	17.03 14.37
8	16.38 14.22	17.86 16.83	16.28 14.55	20.34 19.12	17.80 16.46	18.19 16.69	16.01 14.13	17.25 15.05	24	16.69 14.39	17.21 15.62	16.84 14.53	19.23 18.07	19.66 19.09	16.01 14.21	16.79 14.81	16.83 14.48
9	16.12 14.05	17.32 16.27	16.47 14.51	19.55 18.17	17.86 16.36	18.09 16.57	16.31 14.49	17.28 14.93	25	16.84 14.56	17.16 15.40	16.92 14.75	19.17 17.86	19.84 19.27	16.13 14.39	16.85 15.13	17.22 14.75
10	15.86 13.92	17.09 15.64	16.59 14.49	19.63 18.14	17.93 16.59	17.82 16.19	16.53 14.48	17.23 14.80	26	17.07 14.83	17.00 15.17	17.58 15.14	18.78 17.86	20.16 19.58	16.30 14.38	16.93 14.87	17.69 15.03
11	16.01 13.94	16.90 15.24	16.72 14.65	20.99	18.35 16.91	17.64 17.04	16.55 14.64	17.35 14.88	27	17.36 15.30	17.26 15.21	17.33 14.96	18.55 17.57	20.18 19.48	16.33 14.23	16.90 14.84	17.76 15.01
12	16.67 14.06	16.98 15.13	16.99 14.88	22.46 21.59	18.35 16.83	17.93 16.18	16.83 14.80	17.46 14.69	28	18.03 16.67	17.05 15.15	17.26 14.96	18.26 17.12	19.77 19.15	16.19 14.19	17.24 15.00	17.65 14.73
13	16.87 14.62	17.00 15.01	17.09 14.79	23.14 22.19	18.28 16.77	17.60 15.78	17.00 14.95	17.23 14.43	29	17.88 16.24	17.30 15.11	17.71 15.11		19.74 19.15	16.43 14.28	17.50 14.94	17.50 14.53
14	16.62 14.67	17.21 15.01	17.12 14.79	23.29 22.72	18.55 16.77	17.53 15.76	17.09 14.93	17.05 14.23	30	17.97 15.94	17.32 15.11	17.70 15.53		19.57 18.73	16.45 14.15	17.35 14.73	17.17 14.34
15	16.54 14.79	17.60 15.18	17.11 14.73	23.20 22.69	18.75 17.11	17.48 15.50	17.36 15.05	17.09 14.25	31		17.36 15.01	18.62 15.60		19.15 18.03		17.45 14.71	
16	16.86 15.02	17.70 15.20	17.15 14.66	22.87 22.43	19.04 17.30	17.46 15.35	17.37 15.05	17.11 14.38									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record
Station discontinued October 6, 1961.

* In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only

TABLE 324

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT SHOOCRASS SLOUGH

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	16.11 13.71	18.16 15.09	16.97 14.19	18.94 15.95	17.47 15.65	17.55 16.07	16.44 13.69	17.22 14.1[illegible]	17	16.55 14.30	17.46 14.37	16.[illegible] 13.42	20.[illegible] 20.09	18.44 16.[illegible]	17.14 14.47	17.1[illegible] 14.3[illegible]	[illegible].8 14.[illegible]
2	16.33 13.71	17.68 15.32	16.63 14.18	19.71 18.09	17.65 15.76	17.36 15.79	16.48 13.62	17.18 14.28	18	16.60 14.13	17.74 14.35	16.69 13.91	20.58 19.72	18.[illegible]4 17.24	17.32 14.[illegible]	17.[illegible] 14.3[illegible]	16.3[illegible] 13.[illegible]
3	16.18 13.94	18.81 15.63	16.55 13.86	19.85 18.81	17.35 15.8[illegible]	17.37 15.69	16.81 14.02	17.11 14.45	19	16.61 13.94	17.87 14.9[illegible]	16.36 13.9[illegible]	20.2[illegible] 19.18	18.[illegible] 17.44	18.[illegible]8 1[illegible].[illegible]	17.6[illegible] 14.4[illegible]	1[illegible].8[illegible] 1[illegible].3
4	16.22 13.63	18.89 17.27	16.37 13.79	20.01 19.14	17.16 15.71	17.51 15.65	16.66 13.67	17.07 14.63	20	16.81 13.86	17.98 16.73	16.18 13.87	19.69 18.50	18.63 17.31	1[illegible].3[illegible] 13.[illegible]3	1[illegible].2[illegible] 13.94	1[illegible].83 13.34
5	16.28 13.60	18.60 17.36	16.16 13.80	20.24 19.[illegible]2	17.38 16.49	17.66 15.82	16.57 13.73	16.83 14.69	21	16.76 14.10	17.68 16.83	16.13 13.41	19.22 1[illegible].[illegible] 1[illegible].2[illegible]	18.61 13.[illegible]1	1[illegible].[illegible] 14.[illegible]	16.41 14.[illegible]	16.[illegible]2 13.[illegible]3
6	16.50 13.64	17.56 16.77	15.76 13.71	20.49 19.84	17.32 15.68	18.23 16.39	16.41 13.70	16.83 14.3[illegible]	22	16.53 13.91	17.03 16.[illegible]	16.31 13.[illegible]	18.[illegible] 17.52	18.42 17.18	16.15 13.[illegible]	16.41 14.1[illegible]	1[illegible].4[illegible] 14.[illegible]
7	16.33 13.73	17.56 15.97	15.86 13.62	19.91 18.74	17.07 15.35	17.87 15.76	15.90 13.29	16.62 14.29	23	16.3[illegible] 13.[illegible]	16.57 14.93	16.3[illegible] 1[illegible].8[illegible]	18.34 1[illegible].[illegible]	18.3[illegible] 17.[illegible]8	1[illegible].74 1[illegible].[illegible]	1[illegible].43 14.[illegible]7	1[illegible].[illegible] 13.[illegible]8
8	16.05 13.66	17.06 15.65	15.90 13.82	19.05 17.89E	17.01 15.34	17.32 15.42	15.65 13.47	16.81 14.41	24	16.34 13.69	16.[illegible]5 14.[illegible]1	16.48 13.[illegible]0	18.14 16.[illegible]8	18.28 17.2[illegible]	16.[illegible]8 13.4[illegible]	16.34 14.[illegible]4	1[illegible].4[illegible] 14.[illegible]1
9	15.79 13.45	16.66 15.21	16.14 13.78	18.52 16.79	17.09 15.20	17.30 15.40	15.96 13.82	16.87 14.32	25	16.45 13.87	16.[illegible]7 14.48	16.[illegible]8 14.[illegible]9	18.18 1[illegible].[illegible]8	18.43 17.[illegible]4	1[illegible].80 13.[illegible]0	16.42 14.42	16.[illegible]8 14.1[illegible]
10	15.52 13.34	16.55 14.71	16.23 13.77	18.57 16.86	17.16 15.35	17.04 15.10	16.21 13.83	16.82 14.1[illegible]	26	16.48 14.10	16.[illegible]5 14.31	17.12F 14.45	17.[illegible]0 16.32	18.62 17.[illegible]	16.[illegible]9 13.72	16.43 14.1[illegible]	1[illegible].[illegible] 14.44
11	15.65 13.35	16.41 14.41	16.38 13.96	20.49 18.79	17.44 15.59	16.96 15.02	16.19 13.99	16.99 14.2[illegible]	27	16.78 14.45	16.8[illegible] 14.38	16.[illegible]5 14.21	17.70E 16.32	18.64 17.[illegible]2	16.00 13.[illegible]1	16.4[illegible] 14.[illegible]4	17.35 14.40
12	16.28 13.48	16.54 14.31	16.64 14.15	20.79 19.55	17.45 15.53	17.38 15.26	16.46 14.06	17.[illegible]4 14.[illegible]	28	17.15 15.43	16.68 14.30	16.8[illegible] 14.[illegible]8	17.38 16.[illegible]7	18.28 17.1[illegible]	15.88 13.[illegible]5	16.79 14.2[illegible]	17.2[illegible] 14.1[illegible]
13	16.44 13.99	16.60 14.23	16.70 14.01	21.31 20.31	17.44 15.49	17.04 14.84	16.61 14.15	16.8[illegible] 13.8[illegible]	29	17.21 15.18	16.92 14.29	17.19 14.28		18.27 17.16	16.10 13.6[illegible]	17.[illegible]7 14.24	17.1[illegible] 13.88
14	16.23 14.00	16.84 14.32	16.75 13.95	21.42 20.47	17.69 15.82	17.02 14.82	16.70 14.13	16.6[illegible] 13.[illegible]7	30	17.57 15.09	16.[illegible]9 14.2[illegible]	17.38E 14.70		18.22 16.8[illegible]	16.12 13.55	16.94 14.[illegible]2	16.78 13.66
15	16.12 14.04	17.27 14.46	16.75 13.95	21.42 20.49	17.92 15.86	17.04 14.62	16.94 14.24	16.71 13.[illegible]2	31		16.[illegible]0 14.24	17.81 14.73		17.98 16.6[illegible]		17.05 14.00	
16	16.38 14.25	17.36 14.46	16.81 13.89	21.10 20.30	17.96 16.02	17.03 14.53	17.01 14.31	16.[illegible]4 13.86									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 325

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SNODGRASS SLOUGH AT TWIN CITIES ROAD BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	14.02 11.79	15.77 12.70	14.74 11.95	14.57 12.92	14.48 12.39	14.57 12.75	14.24 11.64	14.99 12.05	17	14.39 11.99	14.58 11.58	14.57 11.75	14.35 11.95	15.10 13.21	14.74 12.16	14.77 11.99	14.79 12.09
2	14.30 11.76	14.90 13.10	14.50 11.92	14.48 11.85	14.70 12.39	14.50 12.56	14.29 11.54	14.91 12.04	18	14.53 11.96	14.68 11.59	14.48 11.73	13.97 11.81	15.02 13.35	14.99 12.29	14.78 12.05	14.45 11.77
3	14.33 12.14	14.67 12.00	14.39 11.72	14.25 11.96	14.40 12.62	14.53 12.47	14.59 11.83	14.84 12.10	19	14.47 11.85	14.50 11.65	14.17 11.77	13.98 11.67	15.10 13.38	14.59 11.77	14.84 12.03	13.94 11.39
4	14.35 11.83	14.53 11.87	14.25 11.66	13.91 11.84	14.26 12.48	14.69 12.42	14.44 11.50	14.75 12.22	20	14.65 11.79	14.40 11.50	14.05 11.67	13.95 11.55	15.11 13.24	14.25 11.60	14.14 11.59	13.88 11.44
5	14.40 11.83	14.35 11.60	14.08 11.65	13.82 11.62	14.47 12.33	14.83 12.57	14.36 11.54	14.51 12.27	21	14.66 11.98	14.24 11.38	14.02 11.73	13.98 11.54	15.00 13.16	13.99 11.50	13.83 11.62	13.98 11.61
6	14.56 11.83	13.77 11.31	13.69 11.53	14.06 11.66	14.45 12.51	15.39 13.16	14.29 11.50	14.56 12.00	22	14.48 11.83	14.49 11.31	14.20 11.76	14.25 11.53	14.98 13.14	13.99 11.49	14.12 11.70	14.41 12.34
7	14.49 11.90	14.23 11.08	13.79 11.34	14.09 11.67	14.23 12.09	15.05 12.52	13.79 11.14	14.34 12.00	23	14.43 11.73	14.09 12.08	14.26 11.77	13.87 11.13	14.93 13.14	13.70 11.32	14.10 11.68	14.61 11.86
8	14.23 11.78	14.13 11.36	13.79 11.54	14.05 11.57	14.21 12.12	14.62 12.24	13.55 11.25	14.61 12.23	24	14.39 11.71	14.22 11.85	14.36 11.85	13.96 11.14	14.95 13.37	13.56 11.24	14.11 11.75	14.34 11.87
9	13.98 11.63	13.76 11.36	13.96 11.53	14.21 11.46	14.36 12.00	14.69 12.38	13.74 11.68	14.67 12.14	25	14.55 11.89	14.27 11.84	14.49 11.92	14.18 11.32	15.01 13.28	13.60 11.50	14.18 12.13	14.68 12.17
10	13.75 11.46	13.80 11.19	14.13 11.59	14.36 11.61	14.45 12.07	14.51 12.21	14.01 11.70	14.64 12.00	26	14.64 12.14	14.20 11.72	15.08 12.38	13.95 11.26	14.96 13.30	13.74 11.59	14.32 11.95	15.12 12.40
11	13.85 11.46	13.66 11.05	14.26 11.75	15.15 12.14	14.60 12.20	14.48 12.29	14.00 11.85	14.75 12.13	27	14.47 12.14	14.53 11.98	14.84 12.38	14.23 11.90	14.94 13.26	13.81 11.57	14.26 11.86	15.18 12.32
12	14.36 11.60	13.78 11.16	14.48 11.84	14.67 12.14	14.61 12.16	14.93 12.71	14.15 11.73	14.89 12.03	28	14.49 12.38	14.47 11.93	14.71 12.07	14.37 12.23	14.54 12.97	13.72 11.55	14.53 12.05	15.06 12.09
13	14.52 12.06	13.83 11.25	14.56 11.75	14.71 11.81	14.62 12.24	14.64 12.31	14.23 11.74	14.77 11.84	29	14.78 12.51	14.69 11.93	14.93 12.02		14.77 12.97	13.96 11.71	14.83 12.06	14.89 11.87
14	14.27 12.06	14.02 11.46	14.57 11.75	14.65 11.86	15.01 12.24	14.54 12.27	14.29 11.70	14.62 11.67	30	15.16 12.55	14.74 11.97	15.03 12.39		14.84 13.23	14.02 11.56	14.76 11.95	14.63 11.61
15	14.06 11.92	14.41 11.67	14.54 11.74	14.72 11.85	15.23 12.91	14.55 12.15	14.52 11.84	14.66 11.75	31		14.78 11.96	15.30 12.42		14.82 13.17		14.86 11.93	
16	14.28 11.96	14.51 11.67	14.57 11.67	14.47 12.09	14.91 12.99	14.62 12.15	14.63 11.95	14.72 11.90									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this teble, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtein recorder gege height.

TABLE 3P6

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
DELTA CROSS CHANNEL AT WALNUT GROVE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	14.54 11.92	16.15 13.07	15.21 12.01	14.76 13.17	14.96 12.55	14.89 12.91	14.74 11.66	15.48 11.97	17	14.76 11.90	15.03 11.44	14.87 11.76	14.82 12.13	15.46 13.26	15.22 12.19	15.24 12.03	15.18 12.11
2	14.74 12.06	15.25 13.07	14.89 12.00	14.75 11.99	15.23 12.75	14.87 12.72	14.78 11.54	15.36 12.01	18	14.92 11.90	15.14 11.43	14.80 11.79	14.46 12.00	15.35 13.49	15.45 12.33	15.21 12.14	14.74 11.82
3	14.64 12.11	15.06 11.78	14.76 11.81	14.47 12.13	14.91 13.03	14.93 12.59	15 06 11.87	15.27 12.11	19	14.88 11.79	14.94 11.48	14.46 11.79	14.43 11.83	15.41 13.55	15.02 11.78	15.24 12.15	14.21 11.45
4	14.69 11.76	14.86 11.67	14.63 11.74	14.07 12.00	14.77 12.87	15.10 12.57	14.87 11.54	15.20 12.23	20	15.03 11.71	14.80 11.28	14.29 11.74	14.39 11.78	15.38 13.38	14.66 11.64	14.46 11.67	14.32 11.51
5	14.71 11.73	14.62 11.40	14.39 11.70	14.03 11.78	15.01 12.73	15.25 12.72	14.84 11.54	14.96 12.33	21	15.02 11.87	14.67 11.22	14.25 11.81	14.42 11.74	15.26 13.30	14.43 11.56	14.51 11.74	14.32 11.70
6	14.94 11.77	14.05 11.13	14.01 11.63	14.40 11.84	14.99 12.93	15.84 13.29	14.70 11.55	14.96 12.06	22	14.83 11.74	14.85 11.17	14.43 11.90	14.64 11.73	15.20 13.28	14.43 11.62	14.51 11.84	14.86 12.46
7	14.74 11.84	14.49 10.94	14.07 11.45	14.45 12.02	14.75 12.47	15.45 12.64	14.20 11.15	14.78 12.08	23	14.67 11.60	14.40 12.19	14.51 11.94	14.24 11.32	15.17 13.32	14.08 11.42	14.47 11.82	15.03 12.02
8	14.53 11.78	14.38 11.21	14.16 11.71	14.41 11.91	14.75 12.52	14.95 12.38	13.92 11.30	15.01 12.32	24	14.67 11.63	14.60 12.03	14.67 12.08	14.34 11.32	15.15 13.59	13.95 11.36	14.51 11.85	14.78 11.99
9	14.25 11.61	14.04 11.27	14.33 11.74	14.61 11.76	14.83 12.30	15.07 12.52	14.20 11.77	15.11 12.19	25	14.79 11.85	14.72 12.04	14.76 12.14	14.57 11.47	15.22 13.41	14.08 11.60	14.57 12.23	15.16 12.25
10	13.96 11.47	14.04 11.13	14.42 11.75	14.78 11.89	15.03 12.38	14.87 12.32	14.49 11.76	15.09 12.05	26	14.98 12.10	14.61 11.91	15.32 12.52	14.35 11.44	15.19 13.49	14.19 11.66	14.69 12.06	15.60 12.46
11	14.09 11.48	13.95 11.00	14.54 11.91	15.58 12.36	15.14 12.48	14.86 12.38	14.47 11.89	15.25 12.16	27	14.80 12.16	14.96 12.17	15.07 12.25	14.79 12.17	15.19 13.47	14.29 11.64	14.70 11.88	15.64 12.38
12	14.71 11.63	14.14 11.15	14.81 11.97	15.15 12.05	15.17 12.43	15.38 12.78	14.65 11.81	15.37 12.05	28	14.74 12.49	14.87 12.06	14.88 12.25	14.87 12.67	14.77 13.16	14.20 11.59	14.98 12.06	15.53 12.07
13	14.81 12.08	14.17 11.27	14.85 11.81	15.19 12.05	15.19 12.46	15.08 12.40	14.72 11.80	15.21 11.86	29	15.06 12.56	15.15 12.05	15.15 12.25		15.04 13.41	14.47 11.69	15.26 12.05	15.37 11.86
14	14.54 12.05	14.40 11.49	14.88 11.77	15.14 12.06	15.46 12.90	15.02 12.35	14.78 11.73	15.07 11.67	30	15.46 12 68	15.13 12.01	15.21 12.54		15.12 13.41	14.49 11.55	15.22 11.87	15.09 11.64
15	14.40 11.98	14.83 11.60	14.86 11.77	15.25 12.06	15.71 13.04	15.06 12.21	15.04 11.87	15.12 11.74	31		15.21 12.01	15.47 12.64		15.15 13.33		15.32 11.81	
16	14.55 12.00	14.96 11.60	14.91 11.74	14.95 12.24	15.32 13.04	15.16 12.21	15.14 12.00	15.12 11.92									

Crest Stages:	Date						
	Time						
	Stage						

NR— No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 327

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
MOKELUMNE RIVER NEAR THORNTON

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	13.10 10.07	14.48 10.86	13.72 10.19	13.71 11.37	13.37 10.41	13.19 10.87	13.20 9.82	13.75 10.05	17	13.31 10.12	13.69 9.86	13.56 9.91	NR NR	13.88 11.53	13.50 10.28	13.59 10.15	13.55 10.25
2	13.26 10.07	13.87 11.34	13.45 10.14	13.65 10.81	13.64 10.67	13.20 10.63	13.29 9.74	13.67 10.03	18	13.47 10.08	13.80 9.85	13.49 9.94	NR NR	13.74 11.57	13.68 10.50	13.55 10.19	13.22 9.93
3	13.18 10.29	13.82 10.33	13.37 9.93	13.54 10.73	13.38 11.02	13.27 10.54	13.49 10.09	13.57 10.15	19	13.46 9.96	13.61 9.87	13.16 9.96	NR NR	13.78 11.65	13.32 9.84	13.62 10.25	12.70 9.55
4	13.22 9.87	13.61 10.50	13.21 9.89	13.09 11.12	13.20 10.83	13.47 10.58	13.37 9.72	13.46 10.29	20	13.60 9.85	13.48 9.69	13.01 9.89	NR 10.10	13.75 11.30	13.02 9.73	12.88 9.73	12.70 9.58
5	13.27 9.87	13.44 10.11	13.00 9.86	12.95 10.45	13.44 10.67	13.60 10.69	13.26 9.72	13.15 10.38	21	13.61 10.03	13.33 9.82	12.99 9.97	NR NR	13.64 11.17	12.73 9.68	12.60 9.82	12.79 9.83
6	13.48 9.89	12.81 9.75	12.55 9.76	NR 10.17	13.45 10.96	14.10 11.35	13.16 9.68	13.23 10.15	22	13.42 9.90	13.30 9.58	13.23 10.06	13.47 10.09	13.57 11.15	12.77 9.69	12.92 9.92	13.29 10.60
7	13.33 9.97	13.24 9.56	12.67 9.57	NR NR	13.20 10.42	13.78 10.60	12.64 9.39E	13.08 10.16	23	13.29 9.76	12.90 10.23	13.29 10.15	13.04 9.57	13.56 11.14	12.53 9.52	12.88 9.93	13.38 10.12
8	13.08 9.90	13.08 9.77	12.73 9.85	NR NR	13.22 10.51	13.37 10.30	12.39 9.49E	13.29 10.46	24	13.26 9.77	13.11 10.08	13.43 10.25	13.12 9.56	13.53 11.46	12.38 9.53	12.91 9.91	13.17 10.05
9	12.79 9.71	12.75 9.66	12.93 9.84	NR NR	13.33 10.30	13.46 10.49	12.65 9.94	13.46 10.27	25	13.40 10.05	13.19 10.13	13.54 10.26	13.35 9.75	13.59 11.25	12.49 9.78	12.95 10.38	13.52 10.31
10	12.70 9.58	12.80 9.50E	13.06 9.94	NR	13.44 10.39	13.30 10.33	12.94 9.94	13.42 10.08	26	13.56 10.33	13.16 10.05	14.03 10.71	13.14 9.75	13.52 11.40	12.56 9.82	13.08 10.13	13.85 10.51
11	12.71 9.93	12.67 9.45E	13.16 10.12	NR NR	13.62 10.45	13.23 10.44	12.89 10.04	13.58 10.25	27	13.36 10.38	13.48 10.35	13.84 10.48	13.37 9.70	13.47 11.30	12.69 9.86	13.07 9.92	13.88 10.41
12	13.33 9.85	12.85 9.54E	13.46 10.11	NR NR	13.57 10.39	13.68 10.92	13.06 9.89	13.67 10.11	28	13.26 10.63	13.46 10.20	13.71 10.48	13.29 10.53	13.04 10.99	12.58 9.80	13.31 10.13	13.78 10.10
13	13.40 10.31	12.89 9.66	13.51 9.94	NR NR	13.56 10.45	13.41 10.61	13.09 9.94	13.52 9.91	29	13.55 10.70	13.68 10.20	13.89 10.39		13.36 10.99	12.93 9.93	13.59 10.12	13.69 9.82
14	13.15 10.27	13.13 9.86	13.56 9.94	NR NR	13.77 10.45	13.24 10.38	13.19 9.86	13.45 9.66	30	13.94 10.86	13.71 10.25	13.97 10.68		13.41 11.28	12.96 9.76	13.55 9.95	13.43 9.61
15	12.91 10.12	13.51 10.02	13.55 9.89	NR NR	13.95 10.97	13.26 10.25	13.37 10.02	13.48 9.78	31		13.76 10.21	14.24 10.84		13.40 11.23		13.62 9.91	
16	13.07 10.12	13.63 10.02	13.59 9.81	NR NR	13.77 11.19	13.33 10.27	13.48 10.16	13.50 10.03									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 328

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	13.18 10.17	14.75 10.82	12.80 9.20	13.64 11.09	13.45 10.54	13.21 10.83	13.31 9.95	14.03 10.13	17	13.31 10.13	12.76 8.88	13.59 9.89	13.68 10.51	13.84 11.29	13.69 10.40	13.68 10.17	13.85 10.44
2	13.35 10.17	13.97 11.30	12.51 9.20	13.61 10.21	13.75 10.77	13.21 10.65	13.39 9.85	13.90 10.11	18	13.50 10.09	12.88 8.87	13.52 9.90	13.30 10.44	13.70 11.37	13.92 10.56	13.68 10.27	13.39 10.12
3	13.25 10.38	13.82 10.27	NR NR	13.36 10.34	13.45 11.10	13.28 10.58	13.62 10.11	13.76 10.21	19	13.52 9.98	12.69 8.90	13.14 9.94	13.25 10.22	13.79 11.39	13.50 9.95	13.73 10.33	12.85 9.72
4	13.29 9.97	13.62 10.20	NR NR	12.97 10.24	13.27 10.92	13.53 10.57	13.39 9.77	13.63 10.33	20	13.68 9.88	12.54 8.76	12.98 9.89	13.20 10.19	13.72 11.20	13.14 9.81	12.97 9.83	12.85 9.78
5	13.33 9.99	13.44 9.94	NR NR	12.89 10.03	13.54 10.80	13.67 10.72	13.31 9.76	13.25 10.45	21	13.65 10.04	12.36 8.66	12.96 9.97	13.25 10.18	13.62 11.09	12.80 9.81	12.99 9.91	12.97 10.11
6	13.55 9.99	12.88 9.70	NR NR	13.21 10.09	13.52 11.05	14.22 11.30	13.21 9.74	13.42 10.21	22	13.46 9.92	12.33 8.63	13.20 10.06	13.48 10.18	13.55 11.07	12.91 9.81	12.99 10.01	13.56 10.78
7	13.37 10.05	13.31 9.50	NR NR	13.27 10.34	13.26 10.54	13.83 10.60	12.68 9.35	13.24 10.25	23	13.30 9.77	11.91 9.26	13.27 10.15	13.07 9.72	13.57 11.11	12.56 9.63	12.95 10.04	13.67 10.33
8	13.09 9.99	12.90 9.81	NR NR	13.27 10.23	13.29 10.55	13.35 10.32	12.41 9.52	13.46 10.51	24	13.29 9.80	12.13 9.11	13.41 10.28	13.13 9.72	13.54 11.40	12.41 9.58	12.99 10.08	13.46 10.23
9	12.82 9.82	11.73 8.71	NR NR	13.46 10.05	13.39 10.41	13.50 10.57	12.70 9.99	13.64 10.33	25	13.43 10.09	12.27 9.20	13.54 10.27	13.35 9.88	13.62 11.20	12.55 9.86	13.06 10.48	13.82 10.49
10	12.55 9.69	11.80 8.53	13.05 9.98	13.68 10.19	13.47 10.46	13.33 10.40	12.98 10.01	13.59 10.17	26	13.61 10.33	12.21 9.12	14.15 10.67	13.15 9.83	13.48 11.25	12.67 9.93	13.18 10.22	14.28 10.70
11	12.67 9.75	11.68 8.46	13.17 10.16	14.48 10.67	13.65 10.52	13.30 10.51	12.98 10.11	13.79 10.29	27	13.34 10.39	12.56 9.39	13.84 10.35	13.43 10.60	13.49 11.14	12.78 9.92	13.19 10.08	14.32 10.59
12	13.29 9.87	11.82 8.61	13.46 10.13	14.03 10.35	13.64 10.45	13.79 10.99	13.09 9.93	13.93 10.18	28	13.21 10.52	12.49 9.24	13.74 10.30	13.35 10.60	13.01 10.88	12.71 9.85	13.52 10.22	14.21 10.26
13	13.39 10.32	11.90 8.74	13.54 9.97	14.07 10.35	13.63 10.51	13.54 10.53	13.15 9.98	13.73 10.05	29	13.56 10.67	12.73 9.26	13.94 10.30		13.38 11.21	13.04 10.04	13.79 10.20	14.08 10.01
14	13.11 10.32	12.13 8.92	13.58 9.90	14.01 10.37	13.89 10.99	13.38 10.46	13.22 9.85	13.70 9.85	30	14.04 10.82	12.75 9.22	13.99 10.57		13.43 11.21	13.10 9.87	13.75 10.04	13.78 9.77
15	12.91 10.15	12.54 9.04	13.57 9.90	14.11 10.40	14.14 10.99	13.45 10.33	13.48 10.00	13.75 9.95	31		12.84 9.23	14.22 10.70		13.41 11.21		13.87 9.99	
16	13.07 10.13	12.63 8.88	13.62 9.81	13.82 10.62	13.71 11.10	13.56 10.35	13.55 10.12	13.78 10.20									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 329

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT WALNUT GROVE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	13.30 10.49	14.39 11.64	14.00 10.65	14.88 11.64	13.73 11.26	13.68 11.5[illegible]	13.46 10.29	14.28 1[illegible]	17	13.57 10.47	14.48 10.79	13.[illegible] 10.25	[illegible] 14.48	14.2[illegible] 11.[illegible]	13.[illegible] 1[illegible]	14.[illegible] 1[illegible]	13.88 10.7[illegible]
2	13.41 10.67	14.66 11.59	13.[illegible] 1[illegible]	15.37 13.06	13.[illegible] 11.26	13.[illegible] 11.34	13.48 10.19	14.18 10.62	18	13.74 10.47	14.70 10.79	13.[illegible] 1[illegible]	[illegible] 14.22	14.15 12.2[illegible]	14.2[illegible] 10.8[illegible]	13.[illegible] 1[illegible]	13.51 1[illegible]
3	13.33 10.67	14.87 11.59	13.58 10.39	15.28 13.56	13.68 11.54	13.75 11.27	13.81 10.49	14.09 10.74	19	13.[illegible] 10.36	14.62 11.09	13.35 10.3[illegible]	15.53 13.[illegible]	14.21 12.27	13.73 10.39	14.0[illegible] 10.78	12.89 10.[illegible]
4	13.37 10.31	14.87 12.62	13.39 10.35	15.20 13.69	13.51 11.35	13.94 11.25	13.61 10.18	13.[illegible] 10.87	20	13.91 10.31	14.52 11.51	13.1[illegible] 10.3[illegible]	15.22 13.44	14.1[illegible] 12.11	13.33 10.25	13.21 10.29	12.8[illegible] 10.14
5	13.39 10.32	14.56 12.59	13.19 10.31	15.29 13.89	13.79 11.21	14.07 11.3[illegible]	13.51 10.1[illegible]	13.70 10.9[illegible]	21	13.85 10.49	14.2[illegible] 11.57	13.16 10.37	14.9[illegible] 13.08	14.08 12.01	13.09 10.18	13.23 10.34	13.04 10.31
6	13.62 10.32	13.74 12.20	12.70 10.23	15.61 14.15	13.87 11.56	14.64 11.9[illegible]	13.40 10.19	13.70 10.72	22	13.67 10.35	13.68 11.37	13.36 10.44	14.33 12.83	13.95 11.98	13.09 10.22	13.23 10.4[illegible]	13.[illegible] 11.08
7	13.45 10.37	13.96 11.56	12.79 9.99	15.28 13.70	13.62 11.12	14.23 11.31	12.88 9.7[illegible]	13.58 10.71	23	13.52 10.23	13.22 10.79	13.44 10.51	14.28 12.32	13.88 12.00	12.78 10.04	13.20 10.47	13.73 10.[illegible]
8	13.20 10.29	13.68 11.51	12.87 10.23	14.84 12.92	13.60 11.14	13.74 11.04	12.63 9.93	13.81 10.93	24	13.48 10.19	13.44 10.61	13.54 10.64	14.25 12.18	13.88 12.2[illegible]	12.66 9.97	13.28 10.49	13.5[illegible] 10.[illegible]
9	12.92 10.16	13.34 11.26	13.07 10.25	14.66 12.39	13.70 10.94	13.84 11.18	12.86 10.39	13.89 10.8[illegible]	25	13.58 10.44	13.53 10.64	13.66 10.[illegible]	14.42 12.15	13.94 12.10	12.75 10.23	13.33 10.82	13.91 1[illegible]
10	12.64 9.98	13.37 10.88	13.15 10.27	14.75 12.63	13.77 11.04	13.65 10.96	13.18 10.38	13.89 10.68	26	13.78 10.71	13.44 10.52	14.30 10.99	14.2[illegible] 11.95	13.90 12.18	12.89 10.27	13.46 10.69	14.33 11.09
11	12.76 10.01	13.32 10.69	13.26 10.45	16.15 13.96	13.94 11.15	13.69 11.04	13.19 10.45	14.07 10.80	27	13.67 10.77	13.77 10.77	13.95 10.72	14.07E 11.31	13.93 12.14	13.00 10.24	13.4[illegible] 10.52	14.47 10.97
12	13.38 10.17	13.50 10.71	13.57 10.46	16.14 14.25	13.97 11.08	14.19 11.40	13.36 10.42	14.14 10.69	28	13.65 11.12	13.66 10.67	13.8[illegible] 10.68	13.73 11.23	13.51 11.83	12.88 10.21	13.75 10.[illegible]	14.33 10.[illegible]
13	13.51 10.64	13.59 10.69	13.63 10.32	16.46 14.66	14.01 11.12	13.85 10.97	13.47 10.41	14.00 10.47	29	13.97 11.19	13.94 10.66	14.22 10.98		13.78 12.08	13.16 10.32	14.02 10.64	14.19 10.44
14	13.29 10.60	13.84 10.81	13.67 10.26	16.52 14.60	14.29 11.57	13.79 10.95	13.56 10.37	13.83 10.28	30	14.36 11.24	13.96 10.63	14.28 11.05		13.88 12.03	13.21 10.20	13.97 10.48	13.8[illegible] 10.18
15	13.15 10.52	14.25 10.94	13.66 10.26	16.60 14.64	14.53 11.69	13.85 10.76	13.82 10.51	13.82 10.37	31		14.09 10.65	14.62 11.05		13.91 12.03		14.11 10.44	
16	13.36 10.60	14.35 10.77	13.72 10.17	16.24 14.64	14.15 11.69	13.92 10.77	13.89 10.63	13.87 10.56									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only

TABLE 330

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT ISLETON

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.10 12.26	17.73 13.26	16.67 12.20	16.74 13.02	16.33 12.56	16.11 12.55	16.29 11.98	16.94 12.09	17	16.29 12.12	17.07 12.18	16.54 11.78	17.24 13.71	16.73 12.91	16.66 12.34	16.67 12.25	16.69 12.58
2	16.30 12.50	17.37 12.69	16.35 11.97	16.87 13.02	16.50 12.96	16.12 12.37	16.27 11.78	16.78 12.04	18	16.46 11.97	17.28 12.24	16.42 11.80	16.83 13.63	16.47 12.84	16.86 12.51	16.64 12.35	16.23 12.30
3	16.17 12.06	17.11 12.89	16.25 11.97	16.60 13.34	16.32 12.74	16.19 12.29	16.54 12.05	16.66 12.15	19	16.46 11.83	17.08 12.17	16.05 11.85	16.78 13.47	16.51 12.81	16.34 12.01	16.60 12.42	15.69 12.01
4	16.23 12.11	16.89 12.89	16.04 11.97	16.25 13.28	16.13 12.69	16.38 12.24	16.31 11.75	16.51 12.30	20	16.65 11.83	16.95 12.17	15.84 11.82	16.65 13.34	16.49 12.69	15.92 11.92	15.73 11.88	15.78 12.12
5	16.22 12.11	16.60 12.75	15.79 11.94	16.25 13.32	16.43 12.69	16.56 12.42	16.23 11.75	16.21 12.40	21	16.55 12.02	16.73 12.19	15.85 11.97	16.59 13.23	16.41 12.64	15.79 11.92	15.75 12.00	16.33 12.32
6	16.45 12.09	15.85 12.47	15.33 11.90	16.65 13.48	16.34 12.97	17.04 12.97	16.10 11.80	16.11 12.29	22	16.37 11.91	16.24 12.17	16.10 12.22	16.75 13.16	16.23 12.68	15.40 12.11	15.72 12.18	16.51 13.18
7	16.23 12.20	16.29 12.11	15.43 11.74	16.60 13.61	16.13 12.49	16.66 12.31	15.60 11.44	16.45 12.47	23	16.21 11.77	15.76 12.10	16.13 12.43	16.13 12.71	16.12 12.76	15.29 11.80	15.84 12.22	16.51 12.68
8	15.89 12.18	16.08 12.44	15.57 12.11	16.46 13.25	16.11 12.55	16.15 12.11	15.64 11.64	16.45 12.82	24	16.19 11.87	16.05 12.07	16.27 12.47	16.16 12.63	16.06 13.16	15.27 11.80	15.84 12.30	16.35 12.48
9	15.59 12.09	15.83 12.41	15.77 12.21	16.65 12.90	16.17 12.31	16.25 12.37	15.64 12.22	16.60 12.50	25	16.25 12.27	16.16 12.24	16.31 12.44	16.49 12.66	16.14 12.78	15.40 12.12	15.93 12.71	16.72 12.70
10	15.29 11.96	15.89 12.24	15.90 12.28	16.88 13.01	16.27 12.33	16.18 12.19	15.91 12.21	16.59 12.30	26	16.47 12.47	16.08 12.26	16.90 12.70	16.38 12.55	15.99 12.79	15.60 12.12	16.01 12.38	17.28 12.81
11	15.43 12.02	15.81 12.17	16.02 12.34	17.91 13.60	16.43 12.27	16.19 12.38	15.92 12.29	16.80 12.42	27	16.24 12.57	16.43 12.48	16.63 12.35	16.37 12.37	16.01 12.67	15.70 12.18	16.06 12.17	17.29 12.67
12	16.09 12.18	16.01 12.29	16.32 12.28	17.54 13.50	16.46 12.19	16.67 12.87	16.04 12.03	16.88 12.24	28	16.14 12.54	16.27 12.33	16.53 12.25	16.20 12.27	15.65 12.33	15.65 12.12	16.41 12.29	17.15 12.27
13	16.19 12.64	16.12 12.38	16.40 11.96	17.67 13.62	16.55 12.21	16.39 12.48	16.18 11.93	16.72 12.09	29	16.50 12.68	16.61 12.28	16.76 12.55		16.06 12.77	15.96 12.13	16.67 12.24	17.02 11.95
14	15.96 12.59	16.39 12.43	16.47 11.84	17.67 13.67	16.83 12.70	16.35 12.38	16.24 11.87	16.59 11.91	30	16.98 12.86	16.61 12.24	16.93 12.60		16.22 12.89	15.99 11.95	16.68 12.00	16.68 11.72
15	15.79 12.29	16.84 12.47	16.49 11.70	17.82 13.78	17.05 12.82	16.42 12.24	16.50 12.00	16.61 12.05	31		16.66 12.23	17.08 12.77		16.29 12.78		16.81 11.94	
16	15.99 12.28	16.96 12.24	16.54 11.78	17.47 13.71	16.59 12.71	16.57 12.33	16.61 12.20	16.63 12.33									

Crest Stages:	Date						
	Time						
	Stage						

NR— No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 331

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
YOLO BYPASS NEAR LISBON

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.58 12.59	18.33 13.35	17.20 12.56	18.42 15.88	17.28 13.75	17.19 13.84	16.93 12.25	17.92 12.85	17	16.75 12.47	17.47 12.57	17.04 12.28	18.81 17.66	17.84 14.95	17.28 12.68	17.52 12.56	17.44 12.84
2	16.77 12.59	17.63 13.83	16.90 12.55	19.44 17.39	17.55 13.89	17.18 13.65	16.89 11.96	17.76 12.71	18	16.79 12.47	17.67 12.54	16.99 12.29	NR NR	17.67 15.26	17.54 12.91	17.49 12.59	16.95 12.44
3	16.59 12.81	18.06 14.06	16.76 12.25	20.13 19.26	17.23 14.03	17.23 13.33	17.16 12.49	17.63 12.76	19	16.85 12.15	17.66 12.59	16.63 12.28	NR 16.69	17.94 15.93	16.91 12.09	17.60 13.23	16.48 12.07
4	16.66 12.33	17.93 15.03	16.61 12.25	20.45 19.87	17.06 14.05	17.26 12.83	16.94 11.84	17.52 12.96	20	17.07 12.13	17.69 13.07	16.47 12.24	18.07 16.37	17.86 15.59	16.64 12.24	16.79 12.47	16.48 12.20
5	16.66 12.32	17.78 14.89	16.43 12.21	20.57 20.30	17.37 13.86	17.10 12.78	16.77 12.10	17.21 13.16	21	16.96 12.39	17.37 13.00	16.46 12.35	17.75 15.71	17.69 15.18	16.63 12.61	16.88 12.65	16.59 12.51
6	16.90 12.34	17.29 15.45	16.09 12.17	20.72 20.45	17.29 14.25	17.80 13.57	16.78 12.28	17.31 12.83	22	16.79 12.15	17.04 12.68	16.65 12.54	17.63 15.22	17.50 14.88	16.63 12.51	16.88 12.68	17.16 13.75
7	16.68 12.52	17.42 15.17	16.19 11.99	20.71 20.50	16.98 13.43	17.37 12.48	16.23 11.68	17.15 13.02	23	16.70 12.05	16.54 12.68	16.69 12.70	16.96 14.60	17.34 14.58	16.22 12.06	16.72 12.82	17.30 12.88
8	16.44 12.40	16.89 13.74	16.25 12.34	20.61 20.29	17.05 13.59	16.85 12.44	16.11 11.85	17.48 13.35	24	16.69 12.18	16.74 12.43	16.80 12.85	17.17 14.29	17.33 14.67	16.06 12.03	16.77 12.84	17.02 12.59
9	16.12 12.31	16.54 12.79	16.47 12.47	20.36 19.79	17.11 13.44	16.95 12.63	16.40 12.52	17.43 12.79	25	16.85 12.58	16.78 12.46	16.85 12.83	17.35 14.17	17.28 14.20	16.23 12.44	16.90 13.30	17.29 12.86
10	15.90 12.16	16.56 12.43	16.67 12.65	19.81 18.68	17.16 13.43	16.73 12.25	16.67 12.40	17.40 12.60	26	17.09 12.80	16.69 12.49	17.54 13.42	16.90 14.00	17.30 14.05	16.42 12.41	17.01 12.77	17.86 13.21
11	16.13 12.27	16.41 12.27	16.75 12.83	19.83 18.85	17.48 13.55	16.83 12.85	16.69 12.62	17.53 12.69	27	16.75 12.83	16.92 12.63	17.27 13.03	17.25 14.00	17.25 13.86	16.47 12.40	16.95 12.46	18.03 12.89
12	16.79 12.48	16.65 12.48	16.98 12.83	19.77 18.85	17.43 13.41	17.33 13.17	16.81 12.02	17.61 12.33	28	16.63 12.60	16.61 12.52	17.33 13.03	17.03 13.84	16.56 13.65	16.39 12.27	17.38 13.06	17.98 12.48
13	16.95 13.23	16.67 12.56	17.06 12.58	20.05 19.00	17.47 13.51	17.06 12.73	16.89 11.97	17.37 12.13	29	16.98 12.88	17.13 12.61	17.81 13.40		17.09 13.95	16.71 12.45	17.75 12.88	17.77 11.86
14	16.61 12.87	16.90 12.70	17.11 12.44	19.95 19.28	17.93 14.09	16.95 12.43	17.08 11.96	17.26 11.83	30	17.47 13.35	17.16 12.61	17.78 13.96		17.35 13.95	16.72 12.17	17.65 12.83	17.38 11.49
15	16.38 12.53	17.29 12.79	17.07 12.44	19.65 18.75	18.08 14.09	17.00 12.35	17.28 12.10	17.30 12.08	31		17.18 12.50	18.26 13.86		17.35 13.98		17.75 12.71	
16	16.50 12.45	17.39 12.57	17.12 12.25	19.12 18.05	17.71 14.43	17.14 12.54	17.42 12.65	17.39 12.47									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 332

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
YOLO BYPASS AT LIBERTY ISLAND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	16.36 12.15	17.96 13.16	16.85 12.01	16.93 12.61	16.53 12.29	16.40 12.21	16.65 11.65	17.44 11.84	17	16.53 11.97	17.16 11.84	16.76 11.52	17.24 12.90	17.11 12.73	17.06 12.09	17.01 11.94	17.06 12.21
2	16.62 12.38	17.41 12.47	16.56 11.97	16.89 12.52	16.74 12.76	16.48 12.01	16.59 11.37	17.23 11.74	18	16.66 11.66	17.34 11.84	16.70 11.57	16.74 12.85	16.85 12.60	17.30 12.23	16.89 12.05	16.61 11.92
3	16.37 11.93	17.31 12.47	16.48 11.76	16.55 12.81	16.51 12.60	16.53 11.94	16.86 11.66	17.10 11.79	19	16.71 11.66	17.18 11.85	16.27 11.54	16.80 12.71	16.90 12.69	16.74 11.74	16.99 12.19	16.12 11.68
4	16.49 11.92	17.11 12.51	16.24 11.76	16.18 12.70	16.32 12.60	16.82 11.70	16.58 11.24	16.93 11.94	20	16.89 11.64	17.05 11.80	16.07 11.64	16.73 12.79	16.85 12.47	16.29 11.74	16.13 11.54	16.25 11.81
5	16.49 11.92	16.83 12.20	15.96 11.73	16.12 12.67	16.66 12.53	16.82 12.01	16.48 11.38	16.69 12.12	21	16.79 11.81	16.83 11.70	16.09 11.79	16.72 12.81	16.78 12.45	16.30 11.89	16.19 11.79	16.81 12.03
6	16.75 11.88	16.10 11.88	15.53 11.70	16.53 12.86	16.56 12.78	17.40 12.63	16.36 11.53	16.60 11.97	22	16.59 11.72	16.41 11.67	16.33 12.07	16.79 12.72	16.63 12.55	15.82 12.02	16.17 11.97	16.90 13.06
7	16.47 12.09	16.51 11.61	15.61 11.55	16.56 13.18	16.31 12.24	17.03 11.85	15.84 11.06	16.97 12.25	23	16.40 11.53	15.90 11.75	16.39 12.29	16.08 12.27	16.48 12.58	15.82 11.59	16.27 12.09	16.74 12.41
8	16.19 12.03	16.31 12.14	15.77 11.96	16.55 12.99	16.31 12.47	16.51 11.77	16.00 11.34	16.97 12.62	24	16.43 11.67	16.25 11.75	16.48 12.36	16.27 12.19	16.50 13.03	15.65 11.70	16.27 12.23	16.74 12.07
9	15.85 11.95	16.08 12.18	16.00 12.07	16.76 12.64	16.56 12.26	16.62 12.09	16.00 11.98	17.07 12.14	25	16.52 12.12	16.32 11.93	16.57 12.27	16.62 12.27	16.50 12.45	15.87 11.99	16.42 12.61	17.29 12.29
10	15.50 11.80	16.14 12.04	16.12 12.19	17.02 12.69	16.63 12.28	16.44 11.85	16.24 11.99	17.08 11.90	26	16.75 12.27	16.27 12.02	17.08 12.59	16.32 12.12	16.45 12.39	16.09 11.98	16.46 12.22	17.72 12.40
11	15.70 11.95	16.09 11.96	16.24 12.20	18.07 13.12	16.83 12.22	16.58 12.13	16.27 12.01	17.27 12.00	27	16.48 12.42	16.61 12.21	16.83 12.21	16.49 12.04	16.45 12.26	16.15 11.94	16.54 11.92	17.70 12.28
12	16.37 12.10	16.15 12.17	16.52 12.13	17.58 12.77	16.86 12.08	17.09 12.58	16.39 11.59	17.31 11.79	28	16.34 12.25	16.39 12.05	16.73 12.06	16.40 12.04	15.83 11.86	15.98 11.80	16.95 12.16	17.64 11.79
13	16.55 12.66	16.26 12.22	16.62 11.76	17.65 12.78	16.93 12.08	16.75 12.20	16.47 11.52	17.19 11.61	29	16.77 12.46	16.78 12.06	17.06 12.43		16.34 12.32	16.29 11.87	17.23 11.97	17.44 11.28
14	16.26 12.53	16.51 12.18	16.71 11.59	17.67 12.81	17.32 12.68	16.78 11.93	16.64 11.41	17.05 11.39	30	17.31 12.75	16.85 12.01	17.08 12.42		16.58 12.56	16.35 11.57	17.17 11.79	17.09 11.12
15	16.04 12.15	16.94 12.23	16.74 11.41	17.83 12.94	17.45 12.75	16.85 11.88	16.80 11.60	16.99 11.58	31		16.91 12.01	17.33 12.61		16.67 12.43		17.30 11.73	
16	16.27 12.01	17.07 11.95	16.79 11.52	17.40 12.94	17.02 12.74	17.06 12.02	16.94 11.87	17.08 11.94									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 333

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
MINER SLOUGH AT FIVE POINTS

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	16.83 13.12	NR NR	17.35 13.17	17.49 13.82	17.19 13.63	17.04 13.07	17.26 12.48	17.96 12.70	17		17.80 13.17	17.22 12.77	17.86 14.56	17.53 14.9[illegible]	17.63 12.89	17.56 12.75	17.49 13.[illegible]
2	17.07 13.41	NR NR	17.06 13.13	17.54 13.88	17.38 13.98	17.01 12.89	17.20 12.30	17.78 12.63	18		17.97 13.17	17.20 12.75	17.41 14.48	17.31 13.88	17.8[illegible] 13.01	17.5[illegible] 12.87	17.[illegible] 13.6[illegible]
3	16.90 12.97	NR NR	16.93 12.88	17.17 14.22	17.11 13.98	17.14 12.82	17.45 12.59	17.65 13.23	19		17.89 13.27	16.75 12.76	17.43 14.27	17.37 13.99	17.29 12.50	17.56 13.01	16.44 13.27
4	16.98 12.97	NR NR	16.73 12.61	16.82 14.15	17.02 13.81	17.39 12.64	17.22 12.28	17.49 13.48	20		17.75 13.24	16.59 12.80	17.[illegible] 14.[illegible]	17.34 13.77	16.[illegible] 12.47	16.72 12.42	16.60 13.[illegible]
5	16.99 12.96	NR NR	16.57 12.87	16.72 14.13	17.3[illegible] 13.72	17.37 12.89	17.16 12.22	17.28 14.06	21		17.4[illegible] 13.21	16.57 12.89	17.[illegible] 14.17	17.24 13.69	16.81 12.56	16.76 12.59	17.10 13.5[illegible]
6	17.22 12.95	NR NR	16.14 12.82	17.18 14.30	17.26 14.02	17.96 13.49	16.99 12.34	17.15 13.88	22		17.12 13.17	16.77 13.07	17.45 14.10	17.10 13.69	16.[illegible] 12.74	16.73 12.76	17.2[illegible] 14.[illegible]
7	16.99 13.13	NR NR	16.24 12.65	17.17 14.49	16.97 13.54	17.57 12.74	16.46 12.09E	17.15 13.95	23	NO	16.68 13.11	16.85 13.30	16.77 13.63	16.99 13.64	16.21 12.36	16.8[illegible] 12.85	17.28 13.96
8	16.73 13.06	NR NR	16.51 13.01	17.24 14.30	17.01 13.57	17.04 12.59	16.61 12.22	17.41 14.19	24	RE	16.94 13.02	16.99 13.[illegible]	16.9[illegible] 13.61	17.04 13.84	16.21 12.[illegible]	16.8[illegible] 12.9[illegible]	17.09 13.81
9	16.37 12.9[illegible]	NR NR	16.57 13.10	17.40 14.01	17.07 13.38	17.22 12.87	16.81 12.80	17.48 14.05	25	CORD	17.01 13.19	17.07 13.[illegible]	17.3[illegible] 13.6[illegible]	17.09 13.[illegible]	16.[illegible] 12.68	16.94 13.[illegible]	17.4[illegible] 14.04
10	NR 12.77	NR NR	16.64 13.16	17.70 14.11	17.11 13.38	17.03 12.71	16.85 12.80	17.45 13.81	26		16.91 13.16	17.60 13.66	17.08 13.53	17.06 13.36	16.64 12.66	17.00 13.00	18.0[illegible] 14.25
11	NR NR	NR NR	16.74 13.22	18.61 14.69	17.29 13.34	17.14 12.89	16.91 12.85	17.66 13.93	27		17.25 13.42	17.[illegible]7 13.27	17.21 13.4[illegible]	17.01 13.21	16.69 12.77	17.[illegible]9 12.70	18.0[illegible] 14.15
12	NR NR	NR NR	17.09 13.20	18.25 14.49	17.33 13.26	17.61 13.42	16.98 12.49	17.71 13.81	28		17.04 13.24	17.21 13.19	17.02 13.[illegible]4	16.44 12.86	16.57 12.64	17.42 12.91	17.95 13.79
13	NR NR	NR NR	17.09 12.94	18.33 14.50	17.38 13.27	17.39 13.01	17.10 12.43	17.56 13.61	29		17.37 13.25	17.54 13.54		16.99 13.2[illegible]	16.9[illegible] 12.68	17.75 12.75	17.8[illegible] 13.57
14	NR NR	NR NR	17.22 12.81	18.30 14.56	17.73 13.87	17.31 12.84	17.23 12.33	17.38 13.41	30		17.36 13.22	17.55 13.54		17.17 13.[illegible]9	16.94 12.44	17.64 12.54	17.42 13.[illegible]2
15	NR NR	NR NR	17.19 12.73	18.39 14.56	17.88 13.89	17.39 12.75	17.44 12.47	17.40 13.55	31		17.[illegible]9 13.16	17.86 13.[illegible]2		17.22 13.29		17.76 12.58	
16	16.79 13.13	NR 13.20	17.30 12.77	18.05 14.69	17.45 13.93	17.52 12.80	17.50 12.72	17.40 13.75									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 33

DAILY MAXIMUM AND MINIMUM GAGE HEIGHT* IN [illegible] AT LIVERPOOL

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr	May	June
1	16.76 12.37	16.16 13.19	17.13 12.73	17.11 12.32	16.93 12.40	16.43 12.21	16.24 11.77	17.07 11.42	17	16.57 12.[illegible]	17.47 11.[illegible]	17.[illegible] 11.11	[illegible] 12.42	16.14 12.11	17.14 12.11	17.1[illegible] 12.[illegible]2	17.2[illegible] 12.44
2	16.[illegible] 12.44	17.66 12.45	16.80 11.82	17.14 12.60	16.84 12.76	16.44 12.11	16.27 11.64	17.38 11.82	18	16.[illegible] 11.[illegible]	17.[illegible] 11.[illegible]	[illegible] 11.[illegible]	[illegible] 12.[illegible]	16.84 12.4[illegible]	17.2[illegible] 12.24	17.[illegible] 12.2[illegible]	16.73 12.14
3	16.72 12.05	17.44 12.38	16.68 11.80	16.74 12.[illegible]	16.73 12.[illegible]	16.64 11.93	17.[illegible] 11.[illegible]	17.23 11.[illegible]	19	17.[illegible] 11.[illegible]	17.4[illegible] 11.8[illegible]	[illegible] 11.6[illegible]	16.[illegible] 12.44	16.13 12.43	[illegible] 11.83	17.[illegible] 12.[illegible]2	16.2[illegible] 11.[illegible]
4	16.81 12.05	17.19 12.06	16.46 11.81	NR [illegible].43	16.66 12.[illegible]	16.83 11.81	16.[illegible] 11.49	17.02 12.1[illegible]	20	17.19 11.[illegible]	17.[illegible] 11.[illegible]2	16.32 11.[illegible]	16.[illegible] 12.[illegible]	16.83 12.[illegible]	16.3[illegible] 11.79	16.25 11.68	16.38 12.13
5	16.77 12.03	16.46 12.06	16.18 11.78	NR 11.38	16.84 12.6[illegible]	16.[illegible] 12.[illegible]	16.[illegible] 11.49	16.81 12.29	21	17.[illegible] 11.8[illegible]	17.[illegible] 11.[illegible]8	16.[illegible] 11.8[illegible]	16.84 12.[illegible]	16.8[illegible] 17.19	16.3[illegible] 11.92	16.27 11.9[illegible]	16.43 12.3[illegible]
6	17.03 12.03	16.17 11.97	16.77 11.72	NR 12.[illegible]	16.79 12.8[illegible]	17.42 12.[illegible]	16.62 11.[illegible]3	16.75 12.21	22	16.82 11.[illegible]	16.62 11.[illegible]	16.6[illegible] 12.14	16.[illegible] 12.[illegible]2	16.[illegible]1 12.30	16.87 12.[illegible]	16.28 12.13	17.0[illegible] 13.31
7	16.72 12.17	16.62 11.63	16.[illegible]2 11.67	16.70 [illegible]	16.56 12.3[illegible]	17.09 11.94	16.[illegible]1 11.24	16.75 12.47	23	16.[illegible] 11.[illegible]1	16.17 11.8[illegible]	16.[illegible] 12.37	16.31 12.22	16.47 12.41	16.[illegible]3 11.[illegible]5	16.38 12.23	16.89 12.74
8	16.44 12.19	16.47 12.[illegible]9	16.[illegible]1 12.[illegible]4	16.74 12.84	16.68 12.44	16.68 11.80	16.11 11.48	17.[illegible]0 12.8[illegible]	24	16.[illegible] 11.[illegible]5	16.[illegible] 11.[illegible]3	16.[illegible]4 12.43	16.46 12.1[illegible]	16.43 12.[illegible]	16.[illegible]3 11.[illegible]	16.38 12.39	16.89 12.40
9	16.[illegible]9 12.[illegible]7	16.26 12.17	16.[illegible]29 12.14	16.[illegible]9 12.[illegible]5	16.71 12.[illegible]5	16.71 12.14	16.11 12.12	17.18 12.42	25	16.78 12.21	16.[illegible]3 12.[illegible]9	16.82 12.3[illegible]	16.82 12.2[illegible]	16.[illegible]3 12.4[illegible]	16.92 12.[illegible]5	16.53 12.[illegible]	17.26 12.[illegible]7
10	16.73 12.[illegible]1	16.28 12.10	16.3[illegible] 12.2[illegible]	17.24 12.[illegible]8	16.[illegible] 12.23	16.58 11.[illegible]7	16.37 12.1[illegible]	17.2[illegible] 12.20	26	16.[illegible]9 12.42	16.54 12.18	17.3[illegible] 12.84	16.62 12.12	16.42 12.3[illegible]	16.15 12.04	16.[illegible]0 12.3[illegible]	17.81 12.70
11	16.[illegible]0 12.11	16.25 12.[illegible]8	16.[illegible]5 12.29	18.24 12.[illegible]7	16.91 12.12	16.[illegible]6 12.18	16.44 12.[illegible]7	17.39 12.27	27	16.71 12.49	16.91 12.3[illegible]	17.12 12.25	16.[illegible]3 12.13	16.[illegible]37 12.18	16.22 12.13	16.68 12.[illegible]7	17.81 12.4[illegible]
12	16.[illegible]6 12.2[illegible]	16.45 12.29	16.[illegible]8 12.20	17.81 12.51	16.95 11.[illegible]2	17.21 12.81	16.61 11.[illegible]5	17.41 12.[illegible]7	28	16.54 12.34	16.71 12.1[illegible]	17.01 12.13	16.[illegible]2 11.98	16.87 11.[illegible]8	16.19 12.02	17.04 12.2[illegible]	17.7[illegible] 12.[illegible]5
13	16.78 12.80	16.[illegible]6 12.34	16.8[illegible] 11.81	17.86 12.41	17.[illegible]2 12.31	16.82 12.2[illegible]	16.[illegible]3 11.[illegible]7	17.32 11.9[illegible]	29	16.97 12.51	17.09 12.14	17.38 12.4[illegible]		16.[illegible]36 12.2[illegible]	16.41 12.01	17.29 12.11	17.58 11.63
14	16.[illegible]9 12.69	16.78 12.30	17.00 11.66	17.87 12.44	17.3[illegible] 12.47	16.84 12.00	16.73 11.57	17.18 11.74	30	17.48 12.80	17.11 12.[illegible]9	17.35 12.49		16.[illegible]6 12.48	16.62 11.74	17.28 11.84	17.24 11.44
15	16.2[illegible] 12.2[illegible]	17.19 12.31	17.00 11.46	18.01 12.[illegible]0	17.49 12.57	16.92 11.[illegible]0	16.94 11.71	17.19 11.89	31		17.13 12.04	17.56 12.57		16.60 12.41		17.41 11.82	
16	16.47 12.14	17.37 12.00	17.10 11.51	17.61 12.66	17.[illegible]7 12.48	17.09 12.[illegible]3	17.04 11.94	17.22 12.27									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 335

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SACRAMENTO RIVER AT RIO VISTA

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	16.65 12.46	18.09 13.26	17.09 12.18	17.05 12.43	16.70 12.47	16.49 12.49	16.83 12.08	17.53 12.19	17	16.69 12.12	17.41 12.08	17.00 11.73	17.31 12.74	17.13 12.72	17.08 12.38	17.07 12.27	17.13 12.64
2	16.86 12.64	17.46 12.56	16.75 11.95	17.05 12.69	16.87 12.99	16.52 12.31	16.80 11.88	17.31 12.11	18	16.91 11.91	17.53 12.03	16.92 11.73	16.91 12.82	16.81 12.63	17.23 12.51	17.01 12.37	16.59 12.30
3	16.72 12.18	17.32 12.45	16.61 11.95	16.71 12.69	16.74 12.78	16.65 12.23	17.03 12.08	17.22 12.23	19	16.94 11.83	17.33 11.87	16.50 11.81	16.89 12.68	16.84 12.56	16.77 12.05	17.03 12.47	16.15 12.09
4	16.76 12.22	17.12 12.16	16.39 11.95	16.24 12.57	16.62 12.82	16.87 12.17	16.78 11.82	17.02 12.35	20	17.11 11.94	17.18 11.87	16.29 11.84	16.82 12.82	16.82 12.43	16.26E 12.00	16.19 11.97	16.29 12.29
5	16.73 12.17	16.81 11.93	16.21 11.95	16.20 12.48	16.87 12.82	17.02 12.32	16.70 11.80	16.72 12.48	21	17.02 11.85	16.94 11.79	16.24 12.06	16.81 12.85	16.74 12.38	16.25E 12.02	16.24 12.13	16.88 12.54
6	16.91 12.27	16.13 11.93	15.72 11.92	16.65 12.74	16.82 13.11	17.45 12.87	16.52 11.90	16.69 12.44	22	16.80 11.73	16.50 11.82	16.57 12.32	16.92 12.80	16.54 12.45	15.83E 12.19	16.22 12.32	17.06 13.39
7	16.66 12.27	16.57 11.71	15.82 11.79	16.71 13.08	16.59 12.57	17.11 12.23	16.04 11.50	16.99 12.64	23	16.65 11.73	16.07 11.94	16.56 12.58	16.41 12.35	16.43 12.53	15.78E 11.94	16.31 12.41	16.88 12.97
8	16.36 12.28	16.35 12.20	15.94 12.22	16.70 12.96	16.58 12.55	16.59 11.99	16.06 11.73	17.09 13.02	24	16.60 11.87	16.32 11.97	16.67 12.63	16.43 12.31	16.40 13.04	15.78E 11.93	16.45 12.53	17.24 12.66
9	16.02 12.17	16.12 12.23	16.21 12.33	16.88 12.67	16.56 12.34	16.70 12.29	16.36 12.35	17.09 12.65	25	16.72 12.34	16.49 12.22	16.78 12.49	16.78 12.36	16.48 12.56	15.82 12.23	16.54 12.95	17.83 12.83
10	15.67 12.07	16.20 12.21	16.29 12.44	17.13 12.73	16.63 12.37	16.65 12.14	16.36 12.36	17.15 12.41	26	16.92 12.55	16.41 12.32	17.34 12.81	16.67 12.28	16.24 12.54	16.01 12.28	16.54 12.59	17.83 12.95
11	15.88 12.15	16.11 12.14	16.37 12.43	18.12 13.02	16.84 12.23	16.64 12.39	16.39 12.42	17.29 12.48	27	16.62 12.61	16.79 12.53	17.11 12.41	16.68 12.23	16.36 12.42	16.11E 12.37	16.63 12.34	17.85 12.69
12	16.53 12.33	16.29 12.38	16.73 12.32	17.70 12.61	16.86 12.12	17.04 12.84	16.46 12.05	17.40 12.31	28	16.47 12.46	16.68 12.28	16.95 12.28	16.62 12.18	15.99 12.04	16.19 12.30	16.96 12.45	17.74 12.32
13	16.66 12.79	16.39 12.49	16.83 11.98	17.75 12.54	16.96 12.16	16.79 12.47	16.60 11.94	17.28 12.18	29	16.85 12.64	16.97 12.27	17.24 12 57		16.43 12.57	16.42 12.32	17.21 12.29	17.58 11.91
14	16.42 12.75	16.64 12.43	16.95 11.79	17.57E 12.57	17.20 12.69	16.77 12.37	16.70 11.85	17.11 11.95	30	17.34 12.87	17.07 12.23	17.28 12.63		16.57 12.72	16.53 12.07	17.18 12.05	17.23 11.71
15	16.22 12.35	17.13 12.47	16.97 11.64	17.92 12.81	17.45 12.76	16.83 12.23	16.89 11.95	17.14 12.09	31		17.09 12.21	17.48 12.70		16.65 12.70		17.36 12.06	
16	16.40 12.23	17.26 12.17	17.07 11.70	17.57 12.74	17.04 12.65	17.03 12.34	17.01 12.15	17.14 12.43									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to mechine process the dete in this teble, it was necessery to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 336

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
THREEMILE SLOUGH AT SACRAMENTO RIVER

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	13.04 9.03	14.41 9.78	13.52 8.78	13.38 8.95	12.99 8.94	12.86 8.97	13.13 8.52	13.86 8.59	17	13.11 8.71	13.85 8.66	13.41 8.29	13.65 9.20	13.47 9.19	13.38 8.86	13.46 8.72	13.55 9.21
2	13.30 9.21	13.84 9.09	13.19 8.53	13.40 9.14	13.19 9.44	12.83 8.74	13.13 8.32	13.66 8.52	18	13.32 8.53	13.96 8.59	13.34 8.29	13.26 9.26	13.17 9.14	13.60 8.96	13.33 8.82	13.03 8.89
3	13.15 8.76	13.73 8.98	13.11 8.53	13.08 9.04	13.03 9.19	12.93 8.74	13.35 8.50	13.51 8.63	19	13.32 8.37	13.78 8.42	12.95 8.30	13.25 9.13	13.24 9.02	13.13 8.52	13.43 8.89	12.56 8.65
4	13.24 8.80	13.45 8.70	12.90 8.53	12.65 9.04	12.90 9.24	13.18 8.71	13.12 8.20	13.26 8.73	20	13.44 8.47	13.54 8.42	12.73 8.35	13.13 9.27	13.19 8.91	12.73 8.45	12.61 8.45	12.70 8.80
5	13.18 8.81	13.23 8.48	12.65 8.52	12.65 9.00	13.18 9.54	13.35 8.82	12.97 8.16	13.01 8.84	21	13.41 8.47	13.36 8.36	12.69 8.58	13.17 9.29	13.14 8.86	12.58 8.50	12.57 8.55	13.26 9.01
6	13.40 8.81	12.51 8.48	12.18 8.44	13.07 9.20	13.18 9.55	13.76 9.31	12.87 8.36	13.01 8.81	22	13.21 8.36	12.99 8.37	12.98 8.85	13.26 9.27	12.94 8.94	12.23 8.66	12.60 8.75	13.40 9.86
7	13.13 8.88	12.96 8.25	12.27 8.30	13.13 9.55	12.93 9.04	13.40 8.80	12.34 7.96	13.30 9.01	23	13.04 8.27	12.55 8.48	13.04 9.06	12.82 8.85	12.86 9.04	12.10 8.45	12.70 8.88	13.21 9.41
8	12.84 8.87	12.72 8.72	12.38 8.74	13.06 9.40	12.94 9.10	12.95 8.48	12.47 8.19	13.30 9.42	24	12.99 8.41	12.77 8.54	13.16 9.11	12.84 8.76	12.84 9.50	12.10 8.44	12.70 8.95	13.21 9.14
9	12.49 8.80	12.53 8.80	12.63 8.85	13.27 9.12	12.99 8.83	13.10 8.86	12.47 8.80	13.43 9.13	25	13.10 8.79	12.92 8.80	13.24 9.03	13.18 8.87	12.83 9.06	12.20 8.76	12.81 9.38	13.85 9.27
10	12.15 8.67	12.61 8.75	12.75 8.98	13.55 9.20	12.98 8.82	13.10 8.69	12.74 8.84	13.50 8.91	26	13.31 9.08	12.88 8.84	13.75 9.31	13.09 8.77	12.76 8.98	12.46 8.76	12.88 9.03	14.13 9.47
11	12.36 8.72	12.54 8.70	12.88 8.96	14.43 9.45	13.15 8.70	13.01 8.95	12.79 8.87	13.68 8.96	27	13.06 9.14	13.23 9.11	13.52 8.91	13.01 8.74	12.75 8.91	12.53 8.81	12.93 8.77	14.16 9.15
12	12.94 8.93	12.72 8.91	13.20 8.85	14.03 9.07	13.20 8.56	13.43 9.46	12.87 8.58	13.76 8.85	28	12.86 8.98	13.15 8.85	13.36 8.78	12.98 8.65	12.38 8.55	12.55 8.78	13.31 8.88	14.10 8.80
13	13.03 9.32	12.83 9.05	13.29 8.48	14.13 9.02	13.28 8.62	13.26 8.98	12.95 8.40	13.65 8.66	29	13.23 9.20	13.42 8.81	13.57 9.03		12.73 9.07	12.75 8.74	13.53 8.75	13.88 8.43
14	12.83 9.30	13.13 8.99	13.36 8.32	14.10 9.03	13.62 9.13	13.13 8.86	12.93 8.35	13.53 8.49	30	13.75 9.41	13.47 8.77	13.65 9.10		12.93 9.19	12.85 8.50	13.53 8.52	13.61 8.25
15	12.66 8.91	13.60 9.02	13.37 8.16	14.23 9.30	13.74 9.21	13.18 8.76	13.23 8.45	13.53 8.62	31		13.52 8.75	13.83 9.17		12.94 9.17		13.73 8.45	
16	12.82 8.78	13.71 8.71	13.45 8.24	13.91 9.20	13.32 9.12	13.33 8.81	13.33 8.65	13.56 8.97									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 337

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	12.69 10.73	14.16 11.06	13.44 10.96	13.31 11.42	12.70 10.38	12.06 10.05	12.05 9.61	13.09 10.05	17	12.87 10.68	13.55 11.04	13.21 10.82	13.18 11.11	12.42 10.26	12.31 9.95	12.78 10.01	12.89 10.10
2	12.88 10.67	13.71 11.60	13.11 10.96	13.27 11.16	12.95 10.62	12.06 10.05	12.19 9.62	12.97 9.94	18	13.23 10.63	13.66 11.01	13.12 10.82	12.92 11.08	12.36 10.38	12.61 10.10	12.91 10.08	12.55 9.77
3	12.88 10.80	13.53 11.20	12.97 10.75	13.04 11.22	12.70 10.87	12.18 10.05	12.45 9.85	12.85 9.95	19	13.08 10.78	13.38 11.05	12.78 10.87	12.76 10.86	12.34 10.23	12.33 9.66	13.06 10.06	11.99 9.40
4	12.94 10.57	13.38 11.08	12.84 10.60	12.64 11.05	12.38 10.52	12.38 10.15	12.48 9.66	12.78 10.07	20	13.28 10.66	13.29 10.81	12.64 10.81	12.76 6.09	12.51 10.23	12.03 9.48	12.28 9.63	11.87 9.43
5	13.04 10.62	13.21 11.03	12.66 10.59	12.58 10.97	12.55 10.41	12.68 10.13	12.31 9.60	12.53 NR	21	13.27 10.78	13.10 10.70	12.51 10.83	12.78 10.63	12.43 10.06	11.71 9.16	12.00 9.71	11.88 9.60
6	13.21 10.71	12.62 10.85	12.23 10.61	12.94 10.97	12.59 10.66	13.11 10.50	12.20 9.53	NR NR	22	13.08 10.65	12.89 10.72	12.76 10.79	13.18 10.85	12.34 10.02	11.78 9.26	12.15 9.74	12.40 10.22
7	13.20 10.72	13.03 10.56	12.43 10.42	13.02 11.09	12.32 10.09	12.88 10.09	11.82 9.40	NR NR	23	12.95 10.45	12.50 10.71	12.96 10.89	12.80 10.85	12.50 10.06	11.58 9.21	12.12 9.74	12.59 9.76
8	12.85 10.64	12.88 10.77	12.42 10.63	13.03 10.88	12.25 10.13	12.36 9.65	11.59 9.46	NR NR	24	12.97 10.52	12.64 10.61	12.99 10.87	12.68 10.38	12.48 10.18	11.25 9.20	12.12 9.83	12.26 9.67
9	12.60 10.52	12.59 10.80	12.58 10.54	13.21 10.91	12.41 9.93	12.51 9.96	11.78 9.85	NR 10.01	25	12.97 10.67	12.81 10.65	13.18 10.91	13.05 10.40	12.68 10.18	11.33 9.46	12.14 10.14	12.70 9.94
10	12.60 10.36	12.63 10.65	12.63 10.49	13.39 10.94	12.41 9.93	12.51 9.93	12.08 9.85	12.51 9.84	26	13.18 10.94	12.69 10.58	13.72 10.90	13.03 10.65	12.17 10.16	11.48 9.46	12.30 9.97	13.19 10.18
11	12.40 10.28	12.53 10.52	12.79 10.56	14.20 10.99	12.51 9.88	12.08 9.93	11.97 9.85	12.71 10.04	27	12.85 10.74	13.06 10.68	13.46 11.26	12.81 10.69	12.29 10.00	11.60 9.56	12.20 9.84	13.26 10.15
12	12.79 10.38	12.61 10.61	13.11 10.80	13.72 11.36	12.48 9.88	12.55 9.98	12.08 9.93	12.96 9.99	28	12.68 10.43	13.07 10.85	13.32 11.13	12.73 10.58	12.24 10.23	11.54 9.47	12.48 10.07	13.10 9.90
13	12.93 10.57	12.65 10.61	13.16 10.85	13.68 11.15	12.42 9.96	12.16 10.10	12.16 9.75	12.80 9.77	29	12.93 10.63	13.32 10.81	13.30 11.14		12.32 10.03	11.79 9.70	12.79 10.03	12.85 9.75
14	12.87 10.76	12.88 10.66	13.25 10.88	13.56 11.10	12.53 10.02	11.93 9.96	12.23 9.79	12.69 9.64	30	13.36 10.83	13.32 10.90	13.58 11.18		12.30 10.30	11.88 9.63	12.79 9.95	12.55 9.55
15	12.65 10.69	13.36 10.87	13.23 10.88	13.60 11.02	12.87 10.27	11.95 9.78	12.48 9.88	12.72 9.68	31		13.40 10.92	13.76 11.35		12.21 10.35		12.91 9.89	
16	12.67 10.59	13.47 11.09	13.22 10.87	13.41 11.24	12.31 10.36	12.12 9.86	12.60 9.92	12.77 9.88									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 338

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SAN JOAQUIN RIVER AT BRANDT BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	17.04 14.06	18.46 14.41	17.64 14.07	17.54 14.58	17.07 13.69	16.70 13.85	16.86 13.50	17.64 13.70	17	17.14 13.91	17.69 14.04	17.34 13.79	17.43 14.44	17.18 14.17	17.12 13.84	17.27 13.77	17.42 14.02
2	17.19 14.06	17.90 15.02	17.30 14.06	17.44 14.24	17.28 14.00	16.66 13.69	16.93 13.42	17.53 13.66	18	17.43 13.86	17.78 14.05	17.28 13.77	17.21 14.42	17.00 14.16	17.42 14.08	17.35 13.90	17.01 13.67
3	17.17 14.24	17.75 14.43	17.19 13.81	17.22 14.35	17.04 14.40	16.74 13.67	17.18 13.69	17.42 13.77	19	17.35 13.9[illegible]	17.56 14.07	16.96 13.83	17.04 14.15	16.96 13.88	17.13 13.46	17.42 13.83	16.50 13.28
4	17.19 13.84	17.56 14.23	17.05 13.77	16.81 14.21	16.83 14.13	16.99 13.82	17.12 13.41	17.27 13.87	20	17.51 13.76	17.42 13.85	16.81 13.79	16.99 14.08	17.04 13.90	16.72 13.39	16.65 13.37	16.49 13.32
5	17.26 13.91	17.41 14.07	16.85 13.68	16.74 13.98	17.01 14.01	17.26 13.88	16.99 13.38	16.96 13.90	21	17.52 13.90	17.29 13.78	16.77 13.83	17.03 14.12	16.98 13.78	16.39 13.16	16.33 13.42	16.55 13.63
6	17.39 13.92	16.76 13.93	16.41 13.60	17.07 14.08	17.03 14.34	17.71 14.43	16.77 13.27	16.95 13.71	22	17.34 13.80	17.09 13.77	16.99 13.90	17.45 14.24	16.90 13.80	16.44 13.28	16.60 13.53	17.09 14.27
7	17.32 13.98	17.19 13.53	16.56 13.38	17.16 14.34	16.79 13.75	17.42 13.79	16.39 12.94	16.82 13.77	23	17.18 13.64	16.68 13.80	17.15 14.05	17.00 13.69	16.99 13.83	16.26 13.16	16.60 13.58	17.26 13.85
8	17.05 13.92	17.03 13.83	16.61 13.75	17.13 14.26	16.76 13.79	16.90 13.40	16.08 13.16	17.01 13.97	24	17.19 13.69	16.88 13.67	17.23 14.13	16.88 13.67	16.89 14.06	16.08 13.12	16.60 13.64	16.99 13.70
9	16.79 13.73	16.73 13.84	16.73 13.67	17.29 14.12	16.96 13.64	17.07 13.72	16.32 13.63	17.16 13.88	25	17.32 13.93	16.99 13.82	17.34 14.14	17.25 13.90	17.06 13.84	16.16 13.37	16.67 14.03	17.38 14.08
10	16.45 13.58	16.78 13.69	16.83 13.73	17.53 14.23	17.07 13.64	17.08 13.68	16.63 13.63	17.15 13.71	26	17.42 14.25	16.93 13.75	17.94 14.52	17.25 13.90	16.61 13.77	16.29 13.55	16.82 13.79	17.85 14.14
11	16.55 13.54	16.66 13.63	16.99 13.93	18.42 14.68	17.16 13.57	16.76 13.76	16.58 13.68	17.35 13.88	27	17.12 14.16	17.28 14.06	17.71 14.52	17.00 13.81	16.72 13.85	16.37 13.56	16.80 13.64	17.84 13.96
12	17.04 13.63	16.77 13.69	17.27 13.92	17.93 14.68	17.09 13.58	17.32 13.76	16.70 13.64	17.55 13.76	28	16.94 13.90	17.27 13.96	17.53 14.28	16.95 13.81	16.62 13.56	16.34 13.43	17.10 13.80	17.74 13.67
13	17.12 13.90	16.81 13.80	17.31 13.85	17.88 14.34	17.10 13.68	16.99 14.03	16.75 13.47	17.37 13.58	29	17.30 14.12	17.47 14.07	17.54 14.16		16.77 13.56	16.58 13.59	17.35 13.79	17.58 13.50
14	17.02 14.10	17.03 13.98	17.36 13.85	17.84 14.31	17.33 13.68	16.86 13.80	16.80 13.43	17.32 13.36	30	17.67 14.20	17.56 14.07	17.79 14.24		16.81 13.94	16.66 13.48	17.35 13.67	17.29 13.25
15	16.83 13.97	17.45 14.04	17.36 13.78	17.95 14.35	17.64 14.19	16.86 13.69	17.02 13.57	17.33 13.47	31		17.62 14.04	17.95 14.44		16.81 14.04		17.50 13.55	
16	16.91 13.97	17.59 14.20	17.38 13.72	17.71 14.58	17.07 14.25	17.00 13.73	17.15 13.65	17.40 13.77									

Crest Stages:	Date											
	Time											
	Stage											

NR — No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machina process the data in this tabla, it was necessary to avoid nagativa gaga haights. Subtract 10.00 faet to obtain recorder gage height.

TABLE 339

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
TOM PAINE SLOUGH ABOVE MOUTH

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	17.15 14.12	18.50 14.38	17.78 14.03	17.63 14.45	17.08 13.69	16.67 13.83	16.69 13.54	17.58 13.68	17	17.22 13.87	17.86 14.07	17.48 13.80	17.55 14.37	17.08 14.01	17.06 13.77	17.32 13.80	17.38 13.87E
2	17.35 14.13	18.04 14.92	17.36 14.03	17.67 14.23	17.33 13.97	16.68 13.69	16.76 13.48	17.45 13.66	18	17.52 13.85	17.95 14.03	17.33 13.82	17.31 14.35	16.91 14.11	17.27 13.97	17.36 13.90	16.98 13.53
3	17.35 14.25	17.83 14.37	17.36 13.80	17.38 14.34	17.07 14.36	16.77 13.78E	17.08 13.66	17.35 13.72E	19	17.38 13.92	17.72 14.06	17.10 13.85	17.18 14.13	16.97 13.91	17.07 13.43	17.49 13.80	16.40 13.15E
4	17.35 13.85	17.67 14.16	17.23 13.83	17.00 14.22	16.85 14.03	17.01 13.83	17.05 13.46	17.25 13.77	20	17.64 13.69	17.58 13.87	16.97 13.80	17.11 14.08	17.07 13.89	16.67 13.58	16.72 13.41	16.35 13.16E
5	17.40 13.87	17.50 13.97	17.03 13.78	16.93 14.09	17.01 13.94	17.32 13.85E	16.86 13.40	16.90 13.77	21	17.59 13.82	17.39 13.78	16.81 13.88	17.18 14.11	17.00 13.69	16.33 13.26	16.42 13.48	16.43 13.40
6	17.60 13.88	16.89 13.94	16.62 13.68	17.29 14.14	17.06 14.31	17.76 14.30	16.71 13.33	16.86 13.61	22	17.39 13.70	17.21 13.76	17.05 13.82	17.57 14.18	16.91 13.74	16.32 13.33	16.65 13.59	17.01 14.16
7	17.45 13.96	17.27 13.54	16.77 13.48	17.37 14.37	16.82 13.73	17.55 13.78	16.34 13.08	16.71 13.67	23	17.27 13.55	16.85 13.77	17.25 13.99	17.16 13.69	17.00 13.78	16.06 13.19	16.62 13.62	17.13 13.68
8	17.23 13.89	17.19 13.77	16.76 13.77	17.33 14.25	16.81 13.80	16.97 13.35	16.01 13.23	16.85 13.88	24	17.26 13.62	17.01 13.66	17.28 14.05	17.09 13.70	16.97 14.03	15.91 13.22	16.65 13.72	16.87 13.55
9	17.00 13.70	16.87 13.80	16.91 13.73	17.53 14.13	16.88 13.55	17.11 13.66	16.21 13.66	17.08 13.78	25	17.26 13.88	17.13 13.81	17.48 13.99	17.38 13.70	17.10 13.79	15.94 13.44	16.65 14.00	17.27 13.78
10	16.65 13.55	16.92 13.63	17.00 13.78	17.74 14.21	17.01 13.62	17.08 13.61	16.54 13.67	17.09 13.60	26	17.50 14.15	17.07 13.76	18.03 13.99	17.36 13.91	16.68 13.73	16.10 13.44	16.81 13.80	17.75 13.97
11	16.71 13.55	16.80 13.58	17.11 13.95	18.58 14.21	17.06 13.55	16.73 13.61	16.46 13.67	17.32 13.75	27	17.25 14.09	17.33 14.08	17.78 14.40	17.13 13.84	16.78 13.73	16.23 13.61	16.72 13.66	17.73 13.78
12	17.11 13.69	16.93 13.64	17.34 13.96	NR NR	17.00 13.55	17.17 13.77	16.59 13.68	17.42 13.68	28	16.99 13.82	17.36 14.17	17.68 14.15	17.06 13.81	16.68 13.89	16.14 13.54	17.00 13.80	17.60 13.55
13	17.29 13.91	16.97 13.80	17.46 13.93	NR NR	17.03 13.53	16.81 14.01	16.66 13.55	17.30 13.45	29	17.32 13.99	17.60 13.98	17.67 14.04		16.81 13.56	16.39 13.65	17.30 13.75	17.36 13.32
14	17.19 14.17	17.17 14.01	17.52 13.83	18.00 NR	17.12 13.61	16.62 13.85	16.71 13.50	17.21 13.26	30	17.75 14.15	17.63 14.03	17.90 14.12		16.80 13.93	16.52 13.56	17.27 13.63	17.10 13.10E
15	16.89 14.01	17.59 14.02	17.50 13.78	18.05 14.32	17.47 14.07	16.68 13.73	16.97 13.60	17.28 13.35	31		17.73 14.02	18.11 14.36		16.80 14.07		17.45 13.49	
16	17.02 13.92	17.75 14.15	17.52 13.73	17.82 14.47	16.92 14.16	16.78 13.79	17.13 13.71	17.32 13.59E									

Crest Stages:	Date											
	Time											
	Stage											

NR— No Record

NOTE : Single daily values indicate daily mean stage only

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 340

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
MIDDLE RIVER AT MOWRY BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	15.76 13.04	17.20 13.41	16.40 13.14	16.33 13.48	15.71 12.94	15.26 12.89	15.28 12.36E	16.24 12.86	17	15.92 13.05	16.49 13.15	16.17 12.99	16.18 13.39	15.69 13.15	15.65 12.81	15.96 12.93	16.08 12.69
2	15.96 13.11	16.70 13.88	16.03 12.94	16.25 13.26	15.98 13.07	15.27 12.93	15.39 12.69	16.13 12.88	18	16.23 13.08	16.63 13.17	16.09 13.00	15.94 13.37	15.54 13.15	15.88 13.01	16.06 12.98	15.68 12.67
3	15.95 13.21	16.47 13.41	16.02 12.72	16.01 13.34	15.73 13.34	15.34 12.86	15.70 12.68	15.99 12.91	19	16.15 13.11	16.35 13.15	15.79 13.04	15.80 13.17	15.57 13.04	15.65 12.73	16.22 12.98	15.09 12.52
4	16.00 13.06	16.34 13.28	15.85 12.90	15.61 13.21	15.49 13.15	15.57 12.93	15.64 12.31E	15.90 12.95	20	16.29 13.01	16.19 13.02	15.65 12.99	15.75 13.09	15.62 12.99	15.22 12.71	15.40 12.78	15.04 12.53
5	16.05 13.06	16.19 13.15	15.69 12.92	15.53 13.08	15.63 13.08	15.89 12.99	15.49 12.58	15.55 12.83	21	16.27 13.06	16.03 12.95	15.52 12.99	15.80 13.11	15.61 12.90	14.92 12.52	15.09 12.77	15.13 12.72
6	16.20 13.07	15.56 13.10	15.20 12.87	15.88 13.13	15.68 13.23	16.31 13.19	15.38 12.26E	15.55 12.77	22	16.10 13.01	15.84 12.87	15.75 12.99	16.21 13.19	15.53 12.86	14.94 12.70	15.32 12.81	15.66 13.11
7	16.18 13.10	15.95 12.89	15.36 12.66	15.98 13.24	15.41 12.89	16.08 12.91	15.00 12.33E	15.37 12.8[illegible]	23	15.96 12.94	15.41 12.90	15.93 13.05	15.77 12.90	15.64 12.91	14.74 12.61	15.28 12.83	15.84 12.80
8	15.87 12.99	15.82 13.00	15.36 12.81	15.97 13.22	15.42 12.91	15.58 12.77	14.52 11.84E	15.54 12.94	24	15.95 12.96	15.59 12.87	16.00 13.09	15.72 12.90	15.60 13.02	14.53 12.61	15.30 12.84	15.55 12.55
9	15.61 12.89	15.55 12.99	15.55 12.80	16.16 13.16	15.55 12.78	15.68 12.92	14.82 11.84E	15.72 12.61	25	15.95 13.05	15.70 12.94	16.16 13.09	16.05 12.93	15.75 12.97	14.58 12.59	15.34 12.94	15.97 12.86
10	15.32 12.85	15.57 12.89	15.68 12.83	16.37 13.16	15.63 12.69	15.67 12.92	15.18 12.72	15.73 12.61	26	16.15 13.23	15.66 12.85	16.43E 13.15	16.03 13.02	15.32 12.97	14.72 12.60	15.50 12.87	16.43 12.89
11	15.36 12.86	15.46 12.81	15.76 12.94	17.19 13.25	15.71 12.86	15.32 12.89	15.11 12.71	15.92 12.74	27	15.86 13.15	16.02 13.02	16.48 13.44	15.74 12.99	15.42 12.89	14.79 12.68	15.40 12.81	16.45 12.94
12	15.81 12.90	15.54 12.87	16.09 12.99	16.72 13.58	15.64 12.86	15.78 12.94	15.22 12.76	16.13 12.80	28	15.65 12.96	16.03 13.09	16.39 13.23	15.70 12.98	15.28 12.98	14.78 12.63	15.70 12.89	16.30 12.77
13	15.93 13.01	15.64 12.92	16.17 12.99	16.65 13.32	15.64 12.85	15.46 12.94	15.29 12.71	15.95 12.04E	29	15.99 13.09	16.22 12.99	16.37 13.17		15.45 12.88	14.99 12.30E	15.96 12.86	16.05 12.69
14	15.84 13.14	15.83 13.02	16.19 12.99	16.60 13.31	15.78 12.89	15.22 12.91	15.38 12.76	15.82 11.76E	30	16.33 13.20	16.28 12.87	16.52E 13.23		15.42 13.04	15.11 12.37E	15.92 12.77	15.76 12.69
15	15.63 13.09	16.29 13.11	16.19 12.98	16.66 13.35	16.13 13.13	15.25 12.76	15.63 12.77	15.87 11.80E	31		16.38 12.89	16.62E 13.41		15.39 13.07		16.10 12.78	
16	15.68 13.04	16.42 13.23	16.24 12.98	16.46 13.49	15.58 13.20	15.37 12.83	15.80 12.88	15.97 12.35									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR — No Record

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 341

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
OLD RIVER NEAR TRACY ROAD BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec	Jan.	Feb	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	17.01 13.98	18.43 14.28	17.69 13.94	17.64 14.27	16.99 13.44	16.62 13.69	16.62 13.19E	17.51 13.36	17	17.12 13.70	17.76 13.85	17.49 13.63	17.51 14.19	17.04 13.83	16.98 13.59	17.25 13.51	17.32 13.64
2	17.21 13.90	17.94 14.78	17.36 13.86	17.59 13.97	17.29 13.76	16.62 13.54	16.69 13.19E	17.39 13.34	18	17.41 13.67	17.87 13.87	17.42 13.64	17.26 14.17	16.84 13.92	17.21 13.77	17.31 13.58	16.89 13.34
3	17.20 14.05	17.74 14.23	17.27 13.64	17.32 14.11	17.00 14.19	16.71 13.49	17.00 13.36	17.29 13.45	19	17.34 13.73	17.65 13.87	17.11 13.69	17.14 13.92	16.91 13.75	16.96 13.21E	17.43 13.53	16.31 12.99E
4	17.22 13.66	17.58 14.06	17.15 13.59	16.92 13.98	16.80 13.83	16.96 13.68	16.95 13.15E	17.16 13.57	20	17.51 13.53	17.53 13.73	16.97 13.63	17.07 13.87	16.98 13.69	16.59 13.06E	16.65 13.04E	16.26 12.95E
5	17.27 13.71	17.44 13.87	16.97 13.54	16.88 13.83	16.97 13.74	17.29 13.67	16.81 13.07E	16.79 13.56	21	17.49 13.66	17.37 13.65	16.84 13.72	17.12 13.92	16.94 13.57	16.23 12.75E	16.32 13.09E	16.47E 13.21E
6	17.47 13.70	16.81 13.82	16.55 13.44	17.21 13.89	17.02 14.16	17.64 14.14	16.69 13.01E	16.79 13.39	22	17.31 13.56	17.18 13.61	17.06 13.64	17.49 13.96	16.86 13.57	16.24 12.87E	16.57 13.20E	16.89 13.99
7	17.37 13.76	17.23 13.41	16.72 13.26E	17.33 14.19	16.77 13.58	17.42 13.59	16.29 12.74E	16.63 13.49	23	17.19 13.40	16.79 13.65	17.26 13.83	17.08 13.44	16.94 13.61	15.95 12.75E	16.56 13.29E	17.06 13.52
8	17.10 13.70	17.14 13.69	16.70 13.56	17.29 14.07	16.77 13.64	16.87 13.12E	15.96 12.94E	16.77 13.70	24	17.15 13.44	16.95 13.54	17.33 13.89	17.01 13.44	16.90 13.86	15.82 12.78E	16.59 13.41	16.79 13.34
9	16.83 13.52	16.80 13.69	16.87 13.54	17.47 13.94	16.91 13.41	17.01 13.49	16.17 13.35	16.97 13.57	25	17.15 13.72	17.08 13.68	17.49 13.85	17.33 13.44	17.02 13.61	15.86 13.04E	16.59 13.73	17.18 13.60
10	16.50 13.37	16.83 13.53	16.97 13.58	17.69 13.99	16.99 13.44	16.99 13.40	16.48 13.37	17.01 13.38	26	17.42 14.00	17.01 13.62	18.04 13.85	17.29 13.65	16.64 13.61	16.02 13.21E	16.75 13.51	17.68 13.79
11	16.59 13.36	16.75 13.44	17.09 13.79	18.53 13.99	17.00 13.37	16.66 13.40	16.42 13.42	17.24 13.59	27	17.13 13.90	17.33 13.96	17.79 14.24	17.02 13.59	16.74 13.54	16.15 13.21E	16.65 13.35	17.67 13.61
12	17.03 13.51	16.86 13.57	17.37 13.74	18.09 14.39	16.95 13.37	17.09 13.52	16.56 13.38	17.39 13.44	28	16.93 13.69	17.35 14.03	17.71 13.98	17.01 13.57	16.61 13.71	16.07 13.14E	16.93 13.49	17.51 13.34
13	17.17 13.76	16.91 13.68	17.45 13.74	18.01 14.06	17.00 13.37	16.74 13.79	16.59 13.22E	17.23 13.29E	29	17.23 13.83	17.55 13.83	17.71 13.88		16.77 13.39	16.32 13.35	17.22 13.41	17.32 13.21E
14	17.07 13.95	17.12 13.87	17.52 13.64	17.96 14.04	17.09 13.41	16.52 13.60	16.69 13.18E	17.13 13.17E	30	17.65 14.02	17.62 13.89	17.90 13.97		16.77 13.76	16.44 13.24E	17.18 13.24E	17.00 13.12E
15	16.81 13.86	17.53 13.87	17.51 13.61	18.02 14.15	17.44 13.89	16.62 13.49	16.89 13.29E	17.18 13.19E	31		17.64 13.90	18.09 14.19		16.75 13.92		17.35 13.24E	
16	16.90 13.74	17.67 14.00	17.53 13.53	17.78 14.31	16.88 13.97	16.71 13.56	17.07 13.39	17.22 13.39									

Crest Stages:	Date	
	Time	
	Stage	

NR – No Record

NOTE : Single daily values indicate daily mean stage only

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 3-2

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
GRANT LINE CANAL AT TRACT ROAD BRIDGE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.09 13.21	17.53 13.47	16.74 13.08	16.60 13.49	16.01 12.64	15.58 12.82	15.68 12.43	16.54 12.59	17	16.18 12.90	16.84 13.11	16.45 12.84	16.51 13.34	16.09 13.06	15.97 12.79	16.28 12.72	16.39 12.87
2	16.28 13.10	17.01 14.00	16.39 13.07	16.58 13.17	16.29 12.93	15.61 12.70	15.71 12.42	16.42 12.55	18	16.51 12.89	16.93 13.10	16.40 12.85	16.22 13.32	15.87 13.14	16.22 12.95	16.36 12.81	15.93 12.53
3	16.29 13.29	16.80 13.41	16.34 12.83	16.32 13.29	15.99 13.36	15.70 12.69	16.05 12.61	16.34 12.68	19	16.41 12.92	16.71 13.12	16.10 12.91	16.12 13.09	15.94 12.94	15.98 12.44	16.46 12.74	15.36 12.09
4	16.29 12.86	16.63 13.25	16.20 12.84	15.95 13.18	15.82 13.02	15.95 12.81	16.01 12.39	16.20 12.78	20	16.57 12.73	16.59 12.91	15.96 12.83	16.10 13.03	15.97 12.90	15.60 12.32	15.72 12.29	15.30 12.16
5	16.34 12.92	16.50 13.08	16.02 12.77	15.86 13.05	15.97 12.95	16.25 12.87	15.85 12.29	15.83 12.73	21	16.55 12.87	16.41 12.84	15.80 12.89	16.12 13.11	15.96 12.78	15.30 11.98	15.38 12.34	15.42 12.42
6	16.53 12.89	15.86 13.02	15.58 12.66	16.23 13.11	16.02 13.34	16.69 13.34	15.69 12.22	15.83 12.58	22	16.43 12.76	16.27 12.84	16.01 12.87	16.51 13.15	15.91 12.78	15.27 12.16	15.61 12.45	15.93 13.18
7	16.45 12.96	16.32 12.57	15.74 12.45	16.34 13.36	15.79 12.78	16.47 12.78	15.29 11.92	15.64 12.65	23	16.26 12.64	15.81 12.86	16.26 13.04	16.10 12.65	16.00 12.82	14.96 12.02	15.58 12.52	16.12 12.73
8	16.13 12.91	16.23 12.90	15.73 12.76	16.31 13.26	15.78 12.84	15.95 12.36	14.98 12.08	15.72 12.88	24	16.23 12.66	15.99 12.78	16.33 13.13	16.00 12.63	15.93 13.09	14.86 12.07	15.61 12.61	15.82 12.53
9	15.90 12.72	15.92 12.93	15.88 12.75	16.48 13.10	15.92 12.68	16.02 12.68	15.17 12.53	16.03 12.76	25	16.23 12.94	16.12 12.89	16.49 13.10	16.31 12.84	16.07 12.82	14.89 12.33	15.63 12.95	16.21 12.75
10	15.58 12.59	15.94 12.79	15.96 12.76	16.66 13.17	15.99 12.66	15.99 12.61	15.47 12.56	16.03 12.59	26	16.49 13.23	16.07 12.87	17.04 13.10	16.29 12.84	15.68 12.74	15.01 12.43	15.80 12.75	16.71 12.98
11	15.69 12.55	15.85 12.72	16.09 12.98	17.48 13.54	16.05 12.57	15.67 12.73	15.42 12.61	16.25 12.75	27	16.23 13.13	16.38 13.19	16.79 13.42	16.05 12.77	15.78 12.88	15.16 12.43	15.72 12.57	16.67 12.77
12	16.09 12.73	15.91 12.78	16.36 12.94	17.05 13.54	15.99 12.55	16.09 12.73	15.56 12.58	16.44 12.67	28	15.97 12 89	16.40 13.26	16.71 13.20	15.98 12.75	15.61 12.88	15.08 12.37	15.97 12.73	16.55 12.53
13	16.25 12.99	16.01 12.93	16.42 12.94	17.00 13.22	16.00 12.55	15.77 12.98	15.61 12.43	16.24 12.46	29	16.31 13.05	16.58 13.03	16.72 13.07		15.77 12.58	15.33 12.53	16.26 12.66	16.37 12.32
14	16.17 13.17	16.20 13.08	16.49 12.82	16.98 13.23	16.09 12.68	15.56 12.83	15.69 12.38	16.12 12.26	30	16.73 13.24	16.65 13.09	16.93 13.19		15.73 12.92	15.46 12.45	16.24 12.52	16.06 12.08
15	15.90 13.12	16.67 13.12	16.46 12.78	16.99 13.35	16.46 13.11	15.59 12.68	15.89 12.50	16.22 12.35	31		16.72 13.09	17.11 13.42		15.73 13.04		16.42 12.46	
16	15.99 12.97	16.75 13.27	16.51 12.74	16.77 13.48	15.91 13.22	15.73 12.72	16.09 12.60	16.28 12.60									

Crest Stages:	Date																
	Time																
	Stage																

NR — No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 343

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
OLD RIVER AT CLIFTON COURT FERRY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	15.02 11.92	16.42 12.39	15.63 11.89	14.85 12.25	14.89 11.45	14.57 11.74	14.67 11.28	15.52 11.39	17	15.13 11.74	15.73 11.91	15.41 11.63	15.42 12.17	15.02 11.92	14.99 11.61	15.25 11.54	15.36 11.81
2	15.23 11.94	15.88 12.88	15.31 11.88	15.49 11.98	15.16 11.73	14.58 11.59	14.73 11.19	15.39 11.33	18	15.39 11.70	15.85 11.90	15.32 11.64	15.14 12.16	14.82 11.99	15.22 11.78	15.34 11.62	14.93 11.46
3	15.19 12.03	15.71 12.23	15.21 11.64	15.26 12.11	14.90 12.23	14.65 11.52	15.03 11.33	15.32 11.48	19	15.32 11.74	15.63 11.90	15.01 11.71	15.05 11.97	14.89 11.82	15.01 11.26	15.45 11.57	14.36 11.09
4	15.19 11.67	15.55 12.08	15.09 11.63	14.80 12.03	14.75 11.89	14.88 11.72	14.99 11.11	15.13 11.58	20	15.47 11.52	15.48 11.72	14.87 11.69	14.99 11.89	14.93 11.78	14.65 11.18	14.69 11.17	14.32 11.14
5	15.25 11.72	15.39 11.87	14.89 11.57	14.75 11.87	14.88 11.81	15.21 11.72	14.81 11.02	14.75 11.57	21	15.51 11.66	15.29 11.66	14.70 11.75	15.04 11.98	14.90 11.67	14.25 10.84	14.32 11.17	14.42 11.40
6	15.42 11.70	14.73 11.85	14.44 11.49	15.11 11.98	14.95 12.21	15.60 12.17	14.68 11.04	14.77 11.45	22	15.31 11.58	15.11 11.63	14.96 11.71	15.39 12.00	14.85 11.66	14.31 11.05	14.57 11.28	14.93 12.16
7	15.33 11.73	15.18 11.40	14.60 11.30	15.21 12.24	14.71 11.66	15.41 11.61	14.31 10.73	14.60 11.52	23	15.18 11.43	14.70 11.68	15.14 11.90	15.00 11.51	14.92 11.69	13.97 10.86	14.55 11.34	15.11 11.73
8	15.08 11.70	15.09 11.68	14.56 11.61	15.20 12.13	14.72 11.67	14.90 11.21	13.99 10.93	14.76 11.77	24	15.13 11.47	14.85 11.53	15.24 11.98	14.95 11.47	14.91 12.00	13.84 10.94	14.60 11.42	14.83 11.53
9	14.80 11.53	14.77 11.70	14.77 11.63	15.38 12.00	14.86 11.50	15.01 11.47	14.20 11.36	15.00 11.71	25	15.28 11.74	14.99 11.72	15.38 11.97	15.27 11.70	14.97 11.71	13.89 11.21	14.60 11.83	15.21 11.78
10	14.46 11.39	14.77 11.57	14.89 11.69	15.58 11.96	14.93 11.52	15.02 11.45	14.49 11.39	15.03 11.49	26	15.37 12.04	14.92 11.67	15.95 12.29	15.22 11.70	14.65 11.63	14.02 11.31	14.81 11.62	15.69 12.01
11	14.59 11.37	14.65 11.49	15.00 11.86	16.43 12.40	14.97 11.44	14.70 11.53	14.48 11.48	15.25 11.64	27	15.15 11.98	15.26 12.03	15.69 12.29	14.92 11.62	14.70 11.75	14.17 11.32	14.70 11.45	15.71 11.70
12	14.59 11.56	14.82 11.62	15.28 11.81	15.96 12.40	14.95 11.39	15.10 12.08	14.58 11.40	15.40 11.56	28	14.91 11.77	15.32 11.85	15.60 12.02	14.96 11.59	14.57 11.40	14.11 11.28	14.96 11.47	15.54 11.45
13	14.66 11.60	14.88 11.75	15.33 11.66	15.94 12.07	14.97 11.48	14.76 11.88	14.60 11.24	15.29 11.36	29	15.21 12.03	15.47 11.85	15.66 11.92		14.72 11.40	14.33 11.33	15.26 11.45	15.35 11.28
14	14.95 11.77	15.13 11.96	15.39 11.66	15.90 12.06	15.09 11.48	14.58 11.65	14.69 11.23	15.17 11.17	30	15.66 12.09	15.56 11.88	15.80 12.07		14.71 11.79	14.44 11.31	15.23 11.25	15.02 11.02
15	14.81 11.79	15.55 11.96	15.38 11.62	15.91 12.15	15.39 12.00	14.66 11.59	14.88 11.29	15.22 11.29	31		15.63 11.88	16.00 12.25		14.69 11.91		15.41 11.30	
16	14.90 11.79	15.63 12.08	15.41 11.55	15.70 12.30	14.86 12.08	14.74 11.64	15.07 11.35	15.28 11.54									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR— No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 344

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
MIDDLE RIVER AT BORDEN HIGHWAY

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	12.96 9.91	14.33 10.27	13.58 9.84	13.45 10.52E	12.98 9.59	12.70 9.84	12.85 9.34	13.73 9.53	17	12.88 9.66	13.68 9.79	13.35 9.51	13.39 10.19	13.20 10.02	13.23 9.78	13.38 9.66	13.54 9.89
2	13.13 9.91	13.78 10.76	13.26 10.21E	13.39 9.92	13.31 9.83	12.70 9.64	12.93 9.29	13.59 9.45	18	13.26 9.60	13.72 9.80	13.24 9.51	13.06 10.18	13.00 10.07	13.44 9.94	13.42 9.74	13.09 9.59
3	13.13 10.05	13.55 10.15	13.18 10.09E	13.16 10.14	13.06 10.31	12.76 9.56	13.23 9.53	13.51 9.59	19	13.17 9.66	13.58 9.79	12.98 9.59	13.04 10.01	13.02 9.90	13.18 9.41	13.53 9.68	12.53 9.16
4	13.17 9.63	13.41 9.94	13.03 9.53	12.75 9.95	12.81 9.96	13.01 9.76	13.17 9.25	13.34 9.70	20	13.37 9.44	13.41 9.61	12.78 9.53E	12.98 10.01	13.06 9.83	12.74 9.26	12.75 9.18	12.48 9.23
5	13.16 9.72	13.29 9.77	12.81 9.49	12.69 9.79	12.98 9.93	13.36 9.76	13.02 9.19	13.00 9.67	21	13.37 9.56	13.28 9.54	12.69 9.65	13.01 10.03	13.01 9.72	12.42 8.93	12.38 9.21	12.58 9.48
6	13.34 9.66	12.64 9.71	12.35 9.38	13.04 9.92	13.07 10.31	13.75 10.26	12.88 9.15	12.98 9.55	22	13.22 9.47	13.04 9.55	12.91 9.69	13.38 10.08	12.93 9.73	12.35 9.08	12.67 9.36	13.13 10.27
7	13.26 9.71	13.11 9.27	12.54 9.19	13.14 10.21	12.83 9.74	13.49 9.70	12.44 8.83	12.88 9.66	23	13.07 9.37	12.64 9.56	13.07 9.84E	13.01 9.56	13.01 9.76	12.27 9.03	12.63 9.41	13.29 9.78
8	12.96 9.68	12.98 9.56	12.53 9.51	13.12 10.10	12.84 9.71	13.00 9.27	12.10 9.00	13.13 9.95	24	13.06 9.38	12.80 9.47	13.17 9.94E	12.95 9.54	12.97 10.05	12.14 9.09	12.68 9.56	13.07 9.64
9	12.70 9.46	12.62 9.61	12.75 9.53	13.30 9.91	12.97 9.57	13.09 9.54	12.32 9.40	13.30 9.78	25	13.22 9.69	12.97 9.64	13.32 9.88	13.25 9.71	13.03 9.73	12.17 9.30	12.74 9.94	13.41 9.91
10	12.35 9.32	12.70 9.43	12.79 9.61	13.50 10.00	13.08 9.59	13.13 9.51	12.62 9.48	13.29 9.63	26	13.32 9.98	12.89 9.62	13.85 10.50E	13.23 9.66	12.71 9.71	12.31 9.45	12.90 9.70	13.91 10.09
11	12.46 9.28	12.58 9.38	12.93 9.75	14.34 10.39	13.15 9.52	12.79 9.66	12.54 9.54	13.42 9.80	27	13.03 9.95	13.26 10.00	13.61 10.22E	12.95 9.66	12.77 9.82	12.38 9.48	12.87 9.57	13.89 9.87
12	12.93 9.43	12.70 9.53	13.21 9.72	13.84 10.11	13.08 9.48	13.35 10.24	12.74 9.49	13.66 9.66	28	12.78 9.70	13.26 9.78	13.49 10.22	12.98 9.65	12.66 9.46	12.33 9.40	13.14 9.62	13.79 9.59
13	13.06 9.78	12.81 9.66	13.26 9.58	13.89 10.11	13.11 9.61	13.04 9.81	12.74 9.36	13.51 9.49	29	13.15 9.99	13.45 9.86	13.54 10.14E		12.82 9.88	12.61 9.60	13.37 9.62	13.62 9.33
14	12.88 9.95	13.01 9.85	13.32 9.58	13.80 10.06	13.33 10.19	12.87 9.81	12.84 9.28	13.36 9.30	30	13.59 10.27	13.52 9.86	13.69 9.99E		12.77 10.01	12.71 9.44	13.39 9.44	13.29 9.12
15	12.72 9.76	13.43 9.96	13.34 9.52	13.86 10.13	13.65 10.19	12.89 9.72	13.08 9.38	13.39 9.37	31		13.56 10.08	13.90 10.56E		12.85 10.01		13.61 9.35	
16	12.78 9.66	13.54 9.96	13.35 9.44	13.63 10.34	13.11 10.19	13.07 9.77	13.21 9.46	13.52 9.69									

Crest Stages:	Date																
	Time																
	Stage																

NR — No Record

E - Estimated

* - In order to machine process the data in this table, it was necessery to avoid negetive gege heights. Subtrect 10.00 feat to obtein recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 345

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
OLD RIVER AT MANSION HOUSE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	13.10 9.97	14.49 10.34	13.68 9.83	13.45 10.27	13.08 9.62	12.76 9.84	13.00 9.45	13.78 9.63	17	13.12 9.74	13.75 9.81	13.45 9.58	13.48 10.29	13.33 10.13	13.35 9.85	13.43 9.70	13.65 10.00
2	13.30 9.97	13.92 10.82	13.33 9.84	13.40 9.98	13.37 9.90	12.76 9.68	13.06 9.35	13.66 9.57	18	13.40 9.70	13.85 9.82	13.37 9.57	13.18 10.27	13.10 10.18	13.57 10.02	13.50 9.80	13.19 9.73
3	13.23 10.09	13.71 10.19	13.22 9.60	13.15 10.15	13.12 10.34	12.83 9.65	13.29 9.57	13.56 9.69	19	13.36 9.72	13.64 9.84	13.02 9.64	13.10 10.08	13.16 9.96	13.30 9.51	13.61 9.73	12.67 9.33
4	13.23 9.71	13.54 10.01	13.08 9.56	12.75 10.02	12.92 10.08	13.08 9.79	13.23 9.30	13.43 9.76	20	13.52 9.51	13.48 9.65	12.86 9.56	13.08 10.04	13.18 9.89	12.91 9.40	12.78 9.26	12.63 9.37
5	13.28 9.74	13.36 9.77	12.87 9.53	12.71 9.87	13.11 10.03	13.44 9.83	13.09 9.25	13.06 9.78	21	13.51 9.63	13.30 9.57	12.78 9.69	13.12 10.10	13.13 9.79	12.62 9.17	12.43 9.35	12.73 9.64
6	13.46 9.73	12.69 9.75	12.43 9.41	13.06 9.98	13.18 10.36	13.85 10.31	12.95 9.24	13.11 9.68	22	13.33 9.54	13.09 9.54	13.04 9.76	13.40 10.10	13.06 9.80	12.57 9.31	12.70 9.43	13.23 10.37
7	13.35 9.78	13.16 9.32	12.58 9.23	13.18 10.28	12.92 9.82	13.58 9.76	12.53 8.93	12.97 9.77	23	13.17 9.41	12.67 9.59	13.18 9.92	13.04 9.61	13.10 9.81	12.33 9.16	12.69 9.47	13.41 9.96
8	13.08 9.73	13.03 9.63	12.59 9.57	13.22 10.20	12.96 9.83	13.10 9.38	12.19 9.13	13.21 10.03	24	13.17 9.46	12.87 9.50	13.27 10.01	12.99 9.62	13.05 10.14	12.20 9.16	12.71 9.63	13.17 9.73
9	12.78 9.58	12.70 9.66	12.79 9.61	13.39 10.03	13.08 9.68	13.19 9.65	12.45 9.53	13.38 9.92	25	13.29 9.76	13.00 9.68	13.42 9.99	13.27 9.76	13.12 9.85	12.26 9.41	12.78 10.03	13.55 10.00
10	12.46 9.43	12.74 9.53	12.91 9.69	13.61 10.11	13.18 9.68	13.19 9.66	12.75 9.61	13.37 9.70	26	13.44 10.06	12.96 9.68	13.99 10.33	13.27 9.71	12.80 9.79	12.42 9.57	12.97 9.77	14.01 10.19
11	12.58 9.38	12.66 9.46	13.04 9.84	14.43 10.50	13.28 9.62	12.99 9.83	12.68 9.83	13.59 9.85	27	13.17 10.02	13.28 10.04	13.73 10.02	13.03 9.71	12.82 9.85	12.51 9.61	12.93 9.62	14.03 9.95
12	13.08 9.56	12.79 9.60	13.31 9.77	13.99 10.50	13.27 9.60	13.38 10.36	12.80 9.55	13.73 9.76	28	12.94 9.80	13.29 9.81	13.56 9.89	13.05 9.71	12.68 9.53	12.47 9.51	13.20 9.66	13.92 9.65
13	13.19 9.91	12.86 9.74	13.37 9.61	13.96 10.14	13.26 9.69	13.16 9.92	12.86 9.40	13.59 9.59	29	13.30 10.07	13.50 9.86	13.68 10.04		12.84 9.93	12.72 9.58	13.50 9.67	13.73 9.46
14	13.06 10.02	13.11 9.91	13.43 9.61	13.91 10.12	13.43 10.19	13.03 9.92	12.93 9.33	13.47 9.37	30	13.73 10.34	13.56 9.86	13.79 10.04		12.88 9.93	12.78 9.47	13.50 9.50	13.44 9.23
15	12.80 9.81	13.52 10.03	13.41 9.55	13.98 10.20	13.73 10.19	13.07 9.77	13.13 9.47	13.55 9.50	31		13.63 9.84	14.00 10.18		12.91 10.04		13.67 9.50	
16	12.89 9.74	13.63 10.03	13.45 9.45	13.72 10.38	13.21 10.27	13.20 9.83	13.29 9.55	13.59 9.75									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 346

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
McLEOD LAKE AT STOCKTON

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb.	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	17.00 13.28	18.37 13.58	17.56 13.16	17.35 13.02	17.10 12.90	16.68 13.17	16.91 12.85	17.83 13.04	17	17.00 13.00	17.69 13.15	17.29 12.74	17.42 13.60	17.30 13.43	17.33 13.19	17.41 13.09	17.62 13.54
2	17.20 13.28	17.71 14.11	17.21 13.14	17.32 13.28	17.31 13.21	16.71 12.97	17.09 12.71	17.71 12.97	18	17.26 12.98	17.82 13.13	17.22 12.72	17.14 13.62	17.04 13.45	17.59 13.42	17.46 13.24	17.14 13.24
3	17.13 13.47	17.53 13.49	17.06 12.89	17.05 13.44	17.07 13.66	16.76 12.93	17.27 13.02	17.58 13.17	19	17.18 13.05	17.61 13.12	16.84 12.78	17.05 13.39	17.09 13.18	17.24 12.80	17.52 13.20	16.70 12.83
4	17.14 13.00	17.33 13.28	16.89 12.81	16.58 13.29	16.81 13.39	17.08 13.09	17.25 12.67	17.43 13.28	20	17.37 12.80	17.41 12.95	16.64 12.76	16.98 13.38	17.14 13.14	16.73 12.79	16.70 12.73	16.70 12.84
5	17.15 13.07	17.14 13.10	16.66 12.77	16.58 13.15	17.09 13.36	17.29 13.13	17.07 12.67	17.10 13.36	21	17.35 12.92	17.24 12.82	16.63 12.87	17.01 13.42	17.06 13.10	16.42 12.60	16.39 12.84	16.90 13.20
6	17.30 13.09	16.48 13.05	16.18 12.72	16.97 13.30	17.12 13.73	17.83 13.78	16.84 12.59	17.16 13.15	22	17.24 12.84	17.00 12.85	16.87 13.02	17.46 13.43	16.92 13.19	16.53 12.68	16.65 12.95	17.31 13.84
7	NR NR	16.97 12.65	16.32 12.51	17.08 13.66	16.85 13.12	17.48 13.06	16.35 12.24	17.06 13.23	23	16.99 12.70	16.60 12.94	17.01 13.18	16.83 12.96	17.00 13.21	16.19 12.53	16.71 13.03	17.41 13.47
8	NR NR	16.78 12.97	16.37 12.91	17.07 13.55	16.82 13.22	16.97 12.67	16.09 12.47	17.27 13.51	24	16.97 12.77	16.80 12.88	17.08 13.26	16.79 12.93	16.82 13.49	16.09 12.53	16.73 12.99	17.20 13.24
9	NR NR	16.58 13.06	16.64 12.89	17.29 13.37	17.02 13.01	17.07 12.96	16.37 12.97	17.40 13.38	25	17.06 13.06	16.94 13.05	17.21 13.21	17.19 13.13	17.02 13.18	16.21 12.79	16.76 13.49	17.53 13.58
10	NR NR	16.58 12.92	16.77 13.04	17.47 13.39	17.17 12.94	17.10 12.92	16.71 12.98	17.43 13.18	26	17.27 13.37	16.89 13.06	17.88 13.52	17.16 13.02	16.54 13.14	16.31 12.96	16.96 13.24	18.01 13.57
11	NR NR	16.57 12.90	16.84 13.17	18.39 13.82	17.21 12.91	16.87 13.06	16.65 13.04	17.62 13.37	27	16.98 13.36	17.24 13.44	17.52 13.20	16.98 13.02	16.69 13.19	16.48 12.97	16.99 13.09	18.07 13.40
12	NR NR	16.68 13.02	17.14 13.04	17.95 13.47	17.20 12.84	17.53 13.67	16.84 12.96	17.75 13.22	28	16.80 13.18	17.22 13.10	17.38 13.10	16.96 12.98	16.53 12.80	16.42 12.83	17.29 13.15	17.98 13.05
13	NR NR	16.78 13.14	17.24 12.87	17.90 13.42	17.23 12.94	17.15 13.18	16.91 12.78	17.62 12.99	29	17.14 13.40	17.41 13.19	17.40 13.21		16.77 13.21	16.69 12.98	17.56 13.18	17.79 12.78
14	16.83 NR	17.01 13.30	17.26 12.74	17.87 13.42	17.52 13.44	17.08 13.18	16.92 12.71	17.50 12.81	30	17.55 13.58	17.48 13.19	17.64 13.21		16.83 13.38	16.77 12.83	17.50 13.03	17.50 12.58
15	16.65 13.17	17.45 13.38	17.32 12.66	18.01 13.43	17.75 13.55	17.09 13.03	17.19 12.85	17.56 12.87	31		17.55 13.16	17.84 13.35		16.84 13.38		17.72 12.85	
16	16.75 13.06	17.58 13.15	17.30 12.66	17.71 13.74	17.17 13.55	17.19 13.14	17.31 13.02	17.59 13.25									

Crest Stages: Date / Time / Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 347

DAILY MAXIMUM AND MINIMUM CAGE HEIGHTS*
STOCKTON SHIP CHANNEL AT BURNS CUTOFF

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.27 12.59	17.72 12.91	16.74 12.39	16.62 12.93	16.39 12.30	16.02 12.55	16.28 12.23	17.08 12.34	17	16.29 12.26	16.91 12.41	16.57 12.14	16.74 12.92	16.62 12.83	16.60 12.56	16.69 12.46	16.84 12.79
2	16.44 12.59	17.08 13.46	16.38 12.40	16.56 12.57	16.62 12.59	16.03 12.34	16.35 12.14	16.94 12.30	18	16.58 12.26	17.02 12.37	16.47 12.10	16.41 12.94	16.41 12.83	16.85 12.79	16.72 12.63	16.30 12.49
3	16.35 12.79	16.86 12.85	16.38 12.15	16.27 12.77	16.34 13.03	16.16 12.31	16.62 12.42	16.84 12.49	19	16.53 12.33	16.81 12.36	16.17 12.21	16.35 12.70	16.38 12.59	16.51 12.23	16.73 12.54	15.83 12.60
4	16.38 12.30	16.69 12.64	16.21 12.19	15.88 12.63	16.16 12.77	16.36 12.48	16.50 12.10	16.68 12.60	20	16.68 12.11	16.63 12.19	16.02 12.17	16.24 12.74	16.40 12.59	16.08 12.19	15.93 12.08	15.83 12.14
5	16.42 12.37	16.45 12.41	15.99 12.21	15.83 12.47	16.39 12.73	16.64 12.53	16.37 12.10	16.30 12.67	21	16.67 12.22	16.46 12.16	16.00 12.31	16.30 12.77	16.36 12.48	15.74 12.05	15.65 12.21	15.95 12.48
6	16.53 12.37	15.79 12.36	15.52 12.12	16.21 12.61	16.40 13.11	17.14 13.19	16.19 12.01	16.39 12.46	22	16.49 12.14	16.22 12.11	16.24 12.44	16.71 12.81	16.28 12.55	15.82 12.16	15.93 12.29	16.59 13.19
7	16.44 12.42	16.21 11.98	15.68 11.92	16.31 12.94	16.17 12.48	16.77 12.44	15.74 11.66	16.25 12.58	23	16.31 12.02	15.80 12.21	16.37 12.63	16.12 12.29	16.29 12.59	15.52 12.00	15.92 12.37	16.64 12.74
8	16.14 12.35	16.07 12.27	15.75 12.29	16.31 12.84	16.18 12.57	16.26 12.09	15.39 11.92	16.47 12.83	24	16.29 12.09	15.99 12.14	16.45 12.70	16.10 12.26	16.12 12.85	15.40 11.97	15.94 12.39	16.43 12.53
9	15.81 12.22	15.79 12.32	15.92 12.30	16.47 12.64	16.30 12.39	16.36 12.39	15.73 12.38	16.69 12.71	25	16.38 12.37	16.13 12.28	16.59 12.66	16.48 12.47	16.29 12.53	15.50 12.17	16.02 12.79	16.81 12.79
10	15.49 12.11	15.84 12.20	16.01 12.38	16.74 12.72	16.43 12.36	16.38 12.32	16.02 12.36	16.65 12.45	26	16.62 12.70	16.09 12.30	17.16 12.98	16.46 12.39	15.88 12.52	15.66 12.34	16.18 12.53	17.27 12.89
11	15.62 12.07	15.77 12.17	16.16 12.49	17.68 13.13	16.52 12.27	16.19 12.45	15.98 12.43	16.86 12.63	27	16.29 12.67	16.43 12.68	16.87 12.65	16.29 12.39	16.02 12.54	15.77 12.37	16.21 12.36	17.33 12.73
12	16.17 12.23	15.89 12.27	16.44 12.40	17.20 12.77	16.48 12.24	16.78 13.03	16.14 12.34	17.00 12.48	28	16.14 12.49	16.43 12.38	16.73 12.52	16.31 12.39	15.88 12.17	15.75 12.26	16.53 12.45	17.22 12.41
13	16.24 12.48	16.00 12.43	16.52 12.23	17.20 12.74	16.54 12.29	16.40 12.59	16.18 12.18	16.81 12.29	29	16.47 12.74	16.64 12.46	16.74 12.52		16.06 12.57	16.00 12.36	16.75 12.46	17.06 12.17
14	16.12 12.69	16.25 12.56	16.58 12.11	17.14 12.74	16.79 12.86	16.32 12.61	16.23 12.10	16.71 12.06	30	16.89 12.91	16.68 12.46	16.98 12.63		16.09 12.57	16.08 12.24	16.77 12.34	16.78 11.92
15	15.96 12.43	16.67 12.64	16.55 12.11	17.25 12.79	17.05 12.86	16.35 12.44	16.44 12.23	16.80 12.19	31		16.76 12.42	17.17 12.79		16.17 12.75		16.94 12.19	
16	16.08 12.36	16.81 12.64	16.59 11.98	16.97 13.04	16.47 12.92	16.51 12.50	16.57 12.34	16.78 12.50									

Crest Stages:	Date																
	Time																
	Stage																

NR — No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only

TABLE 348

DAILY MAXIMIMUM AND MINIMUM GAGE HEIGHTS*
SAN JOAQUIN RIVER AT RINDGE PUMP

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	13.15 9.65	14.55 9.99	13.64 9.47	13.49 9.87	13.19 9.33	12.91 9.65	13.17 9.21	14.02 9.45	17	13.15 9.37	13.74 9.43	13.38 9.12	13.52 9.97	13.51 9.90	13.47 9.62	13.60 9.51	13.77 9.87
2	13.32 9.81	13.90 10.46	13.33 9.48	13.44 9.68	13.44 9.65	12.95 9.47	13.23 9.13	13.86 9.37	18	13.43 9.37	13.87 9.40	13.27 9.10	13.22 9.97	13.30 9.92	13.75 9.81	13.65 9.70	13.28 9.59
3	13.25 9.81	13.69 9.81	13.26 9.25	13.17 9.85	13.17 10.12	13.04 9.42	13.50 9.41	13.75 9.54	19	13.35 9.36	13.64 9.39	12.92 9.15	13.15 9.77	13.28 9.72	13.38 9.22	13.67 9.60	12.79 9.19
4	13.27 9.36	13.50 9.65	13.09 9.25	12.75 9.71	12.99 9.84	13.25 9.49	13.34 9.13	13.58 9.65	20	13.55 9.13	13.48 9.21	12.76 9.12	13.09 9.74	13.31 9.67	12.99 9.15	12.85 9.12	12.79 9.24
5	13.31 9.44	13.33 9.44	12.84 9.21	12.72 9.56	13.24 9.79	13.53 9.55	13.27 9.10	13.19 9.69	21	13.53 9.25	13.28 9.15	12.75 9.25	13.13 9.81	13.27 9.57	12.64 9.05	12.57 9.22	12.90 9.55
6	13.51 9.42	12.68 9.38	12.40 9.14	13.07 9.70	13.26 10.14	14.01 10.16	13.09 9.07	13.29 9.56	22	13.35 9.17	13.08 9.14	13.01 9.36	13.51 9.82	13.17 9.64	12.79 9.14	12.83 9.32	13.46 10.28
7	13.33 9.47	13.09 9.00	12.54 8.94	13.16 9.99	13.02 9.57	13.68 9.46	12.63 8.71	13.20 9.68	23	13.18 9.07	12.67 9.22	13.12 9.55	12.98 9.34	13.20 9.69	12.45 8.99	12.85 9.42	13.59 9.85
8	13.00 9.43	12.98 9.32	12.59 9.31	13.16 9.88	13.05 9.63	13.15 9.09	12.30 8.94	13.40 9.93	24	13.16 9.13	12.88 9.15	13.18 9.62	12.95 9.30	13.09 9.95	12.34 8.95	12.87 9.49	13.36 9.63
9	12.70 9.26	12.70 9.36	12.75 9.29	13.35 9.70	13.19 9.45	13.23 9.43	12.64 9.44	13.60 9.77	25	13.24 9.42	13.03 9.31	13.32 9.62	13.31 9.49	13.18 9.64	12.40 9.20	12.96 9.88	13.74 9.89
10	12.39 9.16	12.74 9.23	12.87 9.38	13.56 9.76	13.29 9.44	13.26 9.38	12.94 9.44	13.57 9.56	26	13.45 9.71	12.96 9.34	13.90 9.91	13.28 9.40	12.84 9.61	12.55 9.34	13.11 9.61	14.20 10.01
11	12.53 9.13	12.66 9.18	12.98 9.49	14.46 10.16	13.42 9.38	13.07 9.50	12.90 9.50	13.77 9.72	27	13.16 9.68	13.29 9.71	13.62 9.58	13.11 9.41	12.92 9.60	12.64 9.40	13.15 9.42	14.24 9.84
12	13.06 9.29	12.77 9.30	13.27 9.40	13.99 9.83	13.38 9.34	13.65 10.10	13.05 9.36	13.92 9.59	28	12.98 9.50	13.31 9.44	13.46 9.45	13.10 9.33	12.72 9.27	12.62 9.27	13.42 9.52	14.15 9.51
13	13.14 9.61	12.82 9.43	13.32 9.22	13.99 9.78	13.42 9.41	13.33 9.66	13.07 9.23	13.76 9.40	29	13.35 9.78	13.52 9.53	13.57 9.45		12.95 9.70	12.88 9.33	13.66 9.54	13.97 9.28
14	13.01 9.72	13.08 9.55	13.39 9.13	13.92 9.78	13.69 9.92	13.22 9.66	13.14 9.16	13.66 9.17	30	13.77 9.99	13.58 9.47	13.72 9.60		13.05 9.70	12.93 9.21	13.70 9.42	13.72 9.04
15	12.80 9.49	13.48 9.65	13.39 9.02	14.05 9.83	13.97 9.92	13.26 9.45	13.35 9.28	13.71 9.31	31		13.62 9.47	13.91 9.73		13.07 9.83		13.85 9.30	
16	12.92 9.39	13.62 9.43	13.40 9.02	13.76 10.07	13.38 10.02	13.40 9.55	13.48 9.40	13.75 9.63									

Crest Stages:	Date						
	Time						
	Stage						

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it wes necessary to avoid negetive gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 349

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
MIDDLE RIVER AT BACON ISLAND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.11 12.88	17.51 13.75	16.64 12.74	16.45 13.14	16.16 12.59	15.82 12.79	16.11 12.48	16.98 12.71	17	16.11 12.60	16.76 12.73	16.39 12.41	16.52 13.22	16.41 13.08	16.45 12.86	16.52 12.72	16.82 13.07
2	16.25 13.03	16.92 13.75	16.33 12.73	16.39 12.90	16.37 12.86	15.87 12.69	16.18 12.38	16.82 12.64	18	16.37 12.61	16.88 12.73	16.32 12.40	16.20 13.24	16.21 13.09	16.67 13.04	16.60 12.81	16.32 12.79
3	16.21 13.03	16.73 13.12	16.22 12.48	16.14 13.07	16.17 13.29	15.96 12.62	16.41 12.62	16.72 12.77	19	16.31 12.61	16.66 12.71	15.96 12.45	16.14 13.03	16.20 12.92	16.37 12.50	16.66 12.83	15.76 12.40
4	16.21 12.60	16.54 12.93	16.05 12.45	15.75 12.93	16.00 13.07	16.22 12.72	16.26 12.30	16.55 12.85	20	16.51 12.42	16.49 12.54	15.80 12.45	16.08 12.99	16.28 12.87	15.98 12.44	15.86 12.32	15.76 12.52
5	16.22 12.63	16.34 12.71	15.83 12.42	15.71 12.82	16.21 13.04	16.52 12.82	16.17 12.31	16.18 12.92	21	16.50 12.56	16.32 12.45	15.76 12.54	16.14 13.05	16.23 12.80	15.68 12.31	15.53 12.42	15.91 12.74
6	16.42 12.64	15.72 12.63	15.37 12.33	16.09 12.95	16.26 13.33	16.94 13.34	16.08 12.29	16.28 12.76	22	16.32 12.46	16.11 12.45	16.02 12.70	16.45 13.05	16.12 12.83	15.71 12.41	15.85 12.55	16.46 13.52
7	16.29 12.69	16.12 12.26	15.51 12.13	16.22 13.27	15.99 12.82	16.64 12.79	15.60 11.93	16.19 12.86	23	16.18 12.32	15.70 12.50	16.15 12.82	16.00 12.55	16.18 12.85	15.45 12.25	15.86 12.66	16.65 13.06
8	15.99 12.66	15.92 12.52	15.52 12.45	16.22 13.16	16.01 12.82	16.17 12.42	15.26 12.14	16.41 13.17	24	16.16 12.39	15.88 12.43	16.23 12.91	16.00 12.57	16.14 13.18	15.33 12.24	15.88 12.78	16.40 12.88
9	15.69 12.48	15.67 12.59	15.70 12.49	16.38 12.96	16.16 12.64	16.25 12.73	15.54 12.62	16.56 13.04	25	16.24 12.69	16.00 12.58	16.35 12.86	16.29 12.71	16.12 12.82	15.39 12.45	15.96 13.15	16.71 13.15
10	15.40 12.34	15.73 12.45	15.81 12.59	16.62 13.06	16.22 12.67	16.22 12.67	15.83 12.64	16.58 12.82	26	16.43 12.99	15.95 12.58	16.89 13.22	16.25 12.65	15.87 12.80	15.52 12.57	16.12 12.88	17.23 13.29
11	15.51 12.31	15.64 12.38	15.90 12.68	17.47 13.47	16.36 12.57	16.06 12.84	15.83 12.71	16.74 12.98	27	16.17 12.97	16.28 12.96	16.62 12.87	16.08 12.65	15.87 12.78	15.61 12.61	16.14 12.73	17.25 13.11
12	16.06 12.51	15.79 12.54	16.19 12.61	16.99 13.13	16.33 12.52	16.51 13.37	15.94 12.57	16.91 12.83	28	15.97 12.87	16.32 12.73	16.45 12.74	16.09 12.65	15.62 12.44	15.57 12.54	16.42 12.81	17.15 12.77
13	16.18 12.87	15.85 12.71	16.26 12.41	16.98 13.13	16.32 12.61	16.27 12.93	15.98 12.40	16.77 12.69	29	16.30 13.04	16.51 12.76	16.56 12.91		15.85 12.88	15.85 12.63	16.68 12.83	16.96 12.51
14	16.02 12.96	16.12 12.84	16.30 12.31	16.99 13.10	16.55 13.14	16.16 12.91	16.05 12.38	16.63 12.43	30	16.78 13.27	16.57 12.76	16.71 13.09		15.94 13.01	15.88 12.50	16.70 12.68	16.66 12.31
15	15.79 12.73	16.53 12.93	16.29 12.30	17.05 13.10	16.79 13.23	16.20 12.76	16.26 12.47	16.68 12.57	31		16.64 12.75	16.89 13.08		15.99 13.01		16.86 12.60	
16	15.89 12.66	16.64 12.74	16.44 12.21	16.74 13.32	16.29 13.23	16.32 12.83	16.40 12.59	16.75 12.84									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 350

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
OLD RIVER NEAR ROCK SLOUGH

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.08 12.92	16.41 13.77	16.65 12.79	16.39 13.22	16.01 12.62	15.74 12.79	16.00 12.44	16.93 12.71	17	16.09 12.64	16.72 12.76	16.32 12.43	16.45 13.19	16.33 13.01	16.37 12.83	16.49 12.74	16.80 13.12
2	16.25 13.06	16.86 13.13	16.29 12.56	16.39 12.90	16.29 12.83	15.79 12.67	16.13 12.35	16.75 12.65	18	16.36 12.67	16.83 12.76	16.29 12.43	16.14 13.23	16.10 13.04	16.61 12.99	16.57 12.81	16.23 12.78
3	16.22 13.06	16.67 13.13	16.25 12.56	16.11 13.09	16.11 13.28	15.89 12.59	16.37 12.58	16.70 12.72	19	16.30 12.67	16.64 12.79	15.92 12.49	16.06 12.99	16.07 12.89	16.26 12.44	16.67 12.78	15.77 12.40
4	16.25 12.70	16.48 12.94	16.06 12.49	15.74 12.94	15.91 13.07	16.09 12.70	16.24 12.27	16.50 12.82	20	16.46 12.40	16.51 12.59	15.78 12.45	16.06 12.98	16.15 12.79	15.86 12.36	15.77 12.27	15.77 12.47
5	16.25 12.74	16.29 12.70	15.83 12.50	15.71 12.83	16.09 12.98	16.44 12.78	16.10 12.21	16.13 12.87	21	16.48 12.59	16.32 12.53	NR NR	16.06 13.03	16.08 12.72	15.59 12.19	15.51 12.33	15.89 12.73
6	16.41 12.71	15.64 12.63	15.38 12.40	16.08 12.95	16.15 13.27	16.85 13.24	15.97 12.22	16.19 12.77	22	16.27 12.46	16.13 12.50	NR NR	16.32 13.04	16.02 12.71	15.64 12.29	15.77 12.47	16.44 13.53
7	16.28 12.76	16.11 12.26	15.50 12.21	16.21 13.26	15.92 12.72	16.53 12.71	15.52 11.89	16.10 12.85	23	16.15 12.35	15.69 12.57	16.11 12.85	15.97 12.57	16.03 12.77	15.39 12.19	15.80 12.57	16.55 13.08
8	16.02 12.72	15.99 12.60	15.55 12.53	16.23 13.19	15.94 12.75	16.06 12.35	15.19 12.09	16.30 13.13	24	16.12 12.40	15.89 12.51	16.21 12.92	15.96 12.52	16.01 13.09	15.23 12.16	15.79 12.72	16.29 12.86
9	15.75 12.51	15.70 12.64	15.75 12.56	16.40 12.96	16.06 12.59	16.14 12.64	15.46 12.57	16.49 13.04	25	16.23 12.72	16.03 12.67	16.35 12.89	16.26 12.72	16.07 12.79	15.26 12.44	15.85 13.12	16.70 13.14
10	15.42 12.40	15.73 12.48	15.85 12.64	16.59 13.06	16.13 12.60	16.14 12.59	15.79 12.63	16.50 12.79	26	16.39 13.00	15.95 12.65	16.91 13.23	16.21 12.64	15.81 12.73	15.44 12.55	16.05 12.88	17.16 13.28
11	15.53 12.37	15.61 12.44	15.96 12.75	17.41 13.43	16.28 12.52	15.96 12.78	15.77 12.71	16.76 12.97	27	16.09 12.96	16.29 13.02	16.65 12.93	16.03 12.65	15.86 12.75	15.50 12.60	16.06 12.69	17.18 13.11
12	16.04 12.55	15.77 12.57	16.23 12.68	16.93 13.08	16.27 12.51	16.38 13.36	15.88 12.55	16.87 12.83	28	15.90 12.81	16.31 12.78	16.48 12.81	16.07 12.62	15.59 12.44	15.51 12.52	16.34 12.79	17.09 12.75
13	16.19 12.90	15.83 12.72	16.26 12.47	16.89 13.05	16.26 12.62	16.14 12.89	15.92 12.39	16.71 12.67	29	16.24 13.01	16.47 12.82	16.63 12.81		15.84 12.87	15.77 12.58	16.59 12.78	16.83 12.52
14	15.99 13.01	16.10 12.87	16.35 12.41	16.88 13.05	16.42 13.12	16.02 12.89	15.99 12.34	16.60 12.47	30	16.71 13.27	16.54 12.75	16.74 12.97		15.89 13.02	15.83 12.44	16.65 12.63	16.55 12.29
15	15.74 12.75	16.49 13.00	16.32 12.41	17.00 13.11	16.69 13.19	16.07 12.74	16.19 12.49	16.65 12.59	31		16.63 12.79	16.93 13.12		15.88 13.02		16.81 12.57	
16	15.88 12.68	16.63 12.75	16.36 12.31	16.71 13.31	16.17 13.19	16.21 12.77	16.36 12.61	16.74 12.83									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 351

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
OLO RIVER AT HOLLAND TRACT

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	16.66 13.53	18.00 14.40	17.17 13.42	17.03 13.85	16.65 13.23	16.31 13.51	16.60 13.20	17.40 13.37	17	16.67 13.25	17.30 13.40	16.98 13.11	17.10 13.87	16.95 13.72	16.91 13.51	17.07 13.43	17.26 13.80
2	16.78 13.66	17.44 14.40	16.85 13.42	17.02 13.52	16.98 13.53	16.31 13.35	16.68 13.09	17.26 13.32	18	16.92 13.29	17.42 13.40	16.92 13.13	16.77 13.85	16.73 13.76	17.15 13.67	17.13 13.53	16.79 13.46
3	16.74 13.66	17.25 13.77	16.78 13.16	16.76 13.73	16.79 13.97	16.36 13.29	16.93 13.26	17.19 13.42	19	16.89 13.29	17.18 13.42	16.58 13.18	16.72 13.68	16.73 13.61	16.84 13.14	17.21 13.47	16.32 13.11
4	16.78 13.28	17.05 13.60	16.57 13.02	16.36 13.56	16.57 13.73	16.63 13.39	16.77 12.94	17.01 13.50	20	17.04 13.12	17.04 13.22	16.46 13.14	16.61 13.63	16.74 13.51	16.47 13.07	16.43 13.02	16.32 13.15
5	16.80 13.29	16.87 13.38	16.33 13.01	16.30 13.42	16.77 13.70	17.05 13.44	16.72 12.91	NR NR	21	17.04 13.24	16.91 13.15	16.42 13.29	16.67 13.66	16.71 13.42	16.20 12.93	16.11 13.08	16.44 13.38
6	17.01 13.30	16.26 13.25	15.95 12.93	16.69 13.56	16.80 13.98	17.42 13.94	16.62 12.92	NR NR	22	16.87 13.14	16.68 13.16	16.65 13.41	16.95 13.64	16.64 13.44	16.20 13.04	16.38 13.21	16.96 14.16
7	16.86 13.32	16.70 12.92	16.05 12.74	16.80 13.86	16.54 13.45	17.10 13.43	16.17 12.58	NR NR	23	16.75 13.02	16.26 13.20	16.77 13.56	16.54 13.20	16.65 13.47	15.95 12.92	16.38 13.28	17.09 13.78
8	16.60 13.38	16.60 13.19	16.09 13.10	16.78 13.76	16.57 13.47	16.63 13.06	15.81 12.76	NR NR	24	16.71 13.07	16.43 13.09	16.83 13.61	16.54 13.15	16.62 13.82	15.79 12.89	16.38 13.41	16.87 13.58
9	16.31 13.20	16.29 13.26	16.26 13.14	16.96 13.55	16.72 13.32	16.74 13.33	16.06 13.25	NR NR	25	16.79 13.37	16.53 13.31	16.95 13.63	16.86 13.33	16.63 13.47	15.87 13.14	16.45 13.80	17.23 13.82
10	15.98 13.07	16.34 13.13	16.38 13.21	17.19 13.66	16.77 13.32	16.71 13.31	16.35 13.31	NR NR	26	16.96 13.66	16.51 13.28	17.48 13.91	16.80 13.24	16.41 13.45	16.05 13.24	16.60 13.54	17.68 13.98
11	16.14 13.05	16.23 13.07	16.49 13.32	17.99 14.06	16.94 13.25	16.53 13.46	16.35 13.41	17.24 13.64	27	16.67 13.64	16.86 13.65	17.24 13.62	16.59 13.26	16.41 13.40	16.15 13.29	16.61 13.39	17.70 13.75
12	16.60 13.22	16.36 13.21	16.77 13.31	17.55 13.75	16.92 13.22	16.92 13.98	16.49 13.27	17.37 13.53	28	16.51 13.42	16.88 13.42	17.11 13.50	16.63 13.23	16.19 13.13	16.11 13.21	16.88 13.44	17.60 13.50
13	16.76 13.59	16.40 13.38	16.82 13.12	17.56 13.73	16.88 13.32	16.79 13.57	16.51 13.15	17.24 13.36	29	16.83 13.70	17.06 13.40	17.22 13.68		16.44 13.58	16.34 13.27	17.12 13.45	17.44 13.29
14	16.59 13.65	16.68 13.48	16.88 13.03	17.51 13.76	17.08 13.82	16.62 13.55	16.58 13.11	17.13 13.15	30	17.28 13.93	17.07 13.42	17.45 13.68		16.48 13.72	16.41 13.15	17.13 13.31	17.18 13.06
15	16.37 13.39	17.12 13.61	16.88 12.96	17.62 13.76	17.27 13.90	16.69 13.41	16.80 13.22	17.18 13.27	31		17 15 13.42	17.59 13.82		16.50 13.66		17.29 13.27	
16	16.46 13.29	17.18 13.46	16.93 12.96	17.34 13.99	16.79 13.72	16.79 13.51	16.95 13.32	17.25 13.50									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 35?

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	16.16 12.90	17.56 13.82	16.74 12.81	16.58 13.35	16.22 12.66	15.94 12.87	16.19 12.52	17.00 12.69	17	16.28 12.74	16.89 12.84	16.55 12.48	16.60 13.25	16.50 13.05	16.52 12.87	16.66 12.74	16.81 13.03
2	16.34 12.90	17.00 13.82	16.44 12.79	16.53 12.97	16.50 12.87	15.96 12.74	16.23 12.37	16.85 12.60	18	16.51 12.74	16.99 12.78	16.46 12.51	16.26 13.26	16.28 13.13	16.67 13.00	16.70 12.80	16.34 12.73
3	16.24 13.03	16.81 13.16	16.34 12.52	16.26 13.16	16.27 13.33	16.04 12.64	16.47 12.57	16.76 12.69	19	16.48 12.70	16.78 12.83	16.09 12.55	16.21 13.09	16.29 12.98	16.37 12.49	16.78 12.79	15.81 12.38
4	16.23 12.63	16.64 12.97	16.23 12.58	15.86 12.99	16.09 13.11	16.26 12.77	16.33 12.30	16.59 12.77	20	16.67 12.49	16.83 12.62	15.98 12.53	16.19 13.06	16.32 12.92	16.04 12.40	15.90 12.25	15.81 12.50
5	16.27 12.66	16.42 12.74	16.01 12.53	15.80 12.85	16.26 13.10	16.54 12.79	16.23 12.26	16.21 12.84	21	16.63 12.64	16.47 12.55	15.92 12.68	16.21 13.10	16.26 12.81	15.74 12.23	15.56 12.34	15.95 12.70
6	16.45 12.63	15.80 12.73	15.54 12.42	16.16 12.97	16.34 13.37	16.94 13.26	16.15 12.27	16.32 12.77	22	16.47 12.53	16.23 12.53	16.18 12.83	16.44 13.12	16.21 12.80	15.75 12.37	15.84 12.45	16.43 13.47
7	16.32 12.68	16.28 12.36	15.70 12.23	16.28 13.28	16.12 12.85	16.67 12.79	15.72 11.97	16.22 12.84	23	16.32 12.38	15.81 12.60	16.28 12.93	16.11 12.64	16.20 12.86	15.49 12.23	15.83 12.59	16.62 13.05
8	16.08 12.65	16.15 12.62	15.71 12.61	16.27 13.16	16.16 12.85	16.21 12.42	15.38 12.13	16.40 13.15	24	16.28 12.46	16.02 12.49	16.37 13.01	16.06 12.63	16.22 13.14	15.36 12.22	15.89 12.70	16.40 12.80
9	15.79 12.50	15.83 12.68	15.92 12.63	16.44 12.97	16.23 12.69	16.29 12.72	15.65 12.56	16.60 12.99	25	16.38 12.78	16.15 12.69	16.54 12.98	16.36 12.76	16.20 12.89	15.43 12.52	15.97 13.05	16.73 13.08
10	15.51 12.37	15.87 12.52	15.99 12.68	16.67 13.07	16.28 12.72	16.25 12.67	15.94 12.68	16.59 12.80	26	16.56 13.06	16.06 12.70	17.11 13.30	16.31 12.72	15.95 12.81	15.59 12.61	16.16 12.81	17.23 13.23
11	15.63 12.35	15.79 12.48	16.13 12.82	17.50 13.47	16.44 12.65	16.11 12.83	15.92 12.73	16.77 12.89	27	16.26 13.02	16.44 13.08	16.82 13.00	16.16 12.74	15.99 12.80	15.68 12.66	16.15 12.64	17.25 13.05
12	16.17 12.56	15.90 12.65	16.40 12.78	17.04 13.13	16.39 12.57	16.44 13.37	16.04 12.59	16.91 12.79	28	16.07 12.84	16.46 12.83	16.71 12.85	16.20 12.74	15.78 12.56	15.66 12.57	16.41 12.71	17.14 12.74
13	16.29 12.97	15.99 12.76	16.47 12.57	17.06 13.13	16.42 12.70	16.32 12.95	16.09 12.44	16.78 12.67	29	16.44 13.11	16.62 12.81	16.83 13.07		16.02 12.93	15.89 12.59	16.69 12.71	16.97 12.47
14	16.15 13.05	16.24 12.92	16.53 12.49	17.02 13.11	16.61 13.21	16.19 12.90	16.19 12.39	16.66 12.45	30	16.88 13.32	16.68 12.80	16.95 13.07		16.04 13.09	15.97 12.49	16.71 12.60	16.69 12.29
15	15.85 12.79	16.65 13.05	16.54 12.49	17.12 13.16	16.86 13.21	16.24 12.78	16.37 12.49	16.69 12.53	31		16.70 12.80	17.13 13.21		16.09 13.09		16.88 12.59	
16	15.99 12.71	16.78 12.84	16.59 12.38	16.84 13.34	16.39 13.28	16.37 12.82	16.57 12.62	16.76 12.78									

Crest Stages:	Date																	
	Time																	
	Stage																	

NR— No Record

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 353

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT VENICE ISLAND

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	16.65 13.37	18.08 14.23	17.18 13.23	16.98 13.63	16.75 13.13	16.47 13.37	16.78 13.04	NR NR	17	16.69 13.09	17.29 13.14	16.94 12.89	17.06 13.73	16.97 13.64	17.06 13.34		17.29 13.53
2	16.83 13.54	17.44 13.55	16.88 13.23	16.94 13.38	17.02 13.42	16.43 13.17	16.79 12.90	NR NR	18	16.92 13.05	17.41 13.14	16.85 12.84	16.72 13.71	16.75 13.59	17.31 13.57		16.80 13.22
3	16.76 13.54	17.21 13.55	16.76 12.98	16.68 13.58	16.72 13.82	16.50 13.13	17.07 13.17	NR NR	19	16.90 13.05	17.19 13.17	16.50 12.87	16.67 13.48	16.78 13.46	16.98 12.96		16.29 12.85
4	16.78 13.08	17.03 13.37	16.61 12.89	16.26 13.41	16.54 13.59	16.76 13.20	NR NR	NR NR	20	17.07 12.89	17.03 12.98	16.33 12.87	16.62 13.48	16.81 13.34	16.56 12.89		16.29 12.94
5	16.79 13.10	16.81 13.13	16.38 12.87	16.23 13.27	16.74 13.52	17.02 13.28	NR NR	NR NR	21	17.03 12.97	16.88 12.90	16.32 13.03	16.65 13.55	16.69 13.24	16.31 12.83		16.42 13.20
6	16.94 13.12	16.17 13.00	15.94 12.79	16.63 13.40	16.79 13.82	17.52 13.80	NR NR	16.78 13.22	22	16.87 12.90	16.65 12.88	16.55 13.17	16.98 13.53	16.67 13.27	16.31 12.89		16.98 13.97
7	16.87 13.18	16.61 12.65	16.07 12.61	16.73 13.73	16.59 13.24	17.23 13.18	NR NR	16.67 13.34	23	16.69 12.76	16.22 12.94	16.69 13.31	16.51 13.05	16.69 13.36	16.02 12.69	NO	17.11 13.55
8	16.54 13.13	16.49 12.97	16.08 12.97	16.69 13.61	16.56 13.29	16.68 12.89	NR NR	16.89 13.62	24	16.66 12.81	16.40 12.88	16.78 13.41	16.49 13.05	16.65 13.69	15.88 12.69	RECORD	16.89 13.34
9	16.27 12.96	16.18 13.02	16.32 12.99	16.90 13.40	16.68 13.13	16.80 13.19	NR NR	17.11 13.44	25	16.74 13.14	16.55 13.07	16.92 13.39	16.80 13.21	16.69 13.37	15.92 13.02		17.27 13.61
10	15.93 12.81	16.23 12.90	16.37 13.09	17.12 13.51	16.78 13.13	16.76 13.15	NR NR	17.09 13.25	26	16.96 13.41	16.49 13.04	17.44 13.71	16.73 13.16	16.45 13.29	16.15 13.14		17.74 13.74
11	16.06 12.80	16.13 12.85	16.50 13.17	18.01 13.90	16.94 13.07	16.58 13.29	NR NR	17.29 13.40	27	16.66 13.40	16.82 13.37	17.19 13.33	16.62 13.18	16.44 13.30	16.23 13.19		17.77 13.58
12	16.61 12.98	16.28 12.99	16.76 13.12	17.51 13.57	16.89 13.05	17.09 13.80	NR NR	17.44 13.27	28	16.46 13.23	16.85 13.22	17.03 13.21	16.61 13.09	16.18 13.01	16.19 13.07		17.66 13.24
13	16.74 13.35	16.39 13.14	16.87 12.93	17.51 13.55	16.90 13.16	16.84 13.44	NR NR	17.27 13.12	29	16.86 13.46	17.06 13.23	17.21 13.41		16.43 13.41	16.44 13.11		17.49 13.01
14	16.55 13.44	16.62 13.29	16.92 12.84	17.46 13.55	17.22 13.68	16.76 13.38	NR NR	17.16 12.91	30	17.32 13.71	17.10 13.21	17.29 13.41		16.48 13.56	16.52 13.02		17.21 12.78
15	16.31 13.21	17.03 13.35	16.92 12.75	17.60 13.61	17.43 13.75	16.79 13.26	NR NR	17.22 13.02	31		17.19 13.23	17.51 13.55		16.54 13.54			
16	16.42 13.17	17.17 13.17	16.99 12.75	17.30 13.81	16.86 13.65	16.97 13.35	NR NR	17.27 13.29									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 354

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
GEORGIANA SLOUGH AT MOKELUMNE RIVER

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	13.28 10.13	14.77 11.09	13.78 9.97	13.55 10.48	13.28 9.92	13.02 10.16	13.29 9.73	14.10 9.91	17	13.33 9.94	13.92 9.92	13.57 9.61	13.68 10.52	13.64 10.47	13.64 10.09	13.71 9.96	
2	13.29 10.24	14.07 11.09	13.46 9.97	13.57 10.11	13.56 10.18	13.03 9.97	13.32 9.63	13.93 9.86	18	13.55 9.94	14.00 9.92	13.51 9.66	13.27 10.47	13.39 10.42	13.89 10.24	13.74 10.01	
3	13.31 9.85	13.84 10.33	13.34 9.72	13.25 10.34	13.28 10.60	13.14 9.94	13.59 9.83	13.81 9.93	19	13.55 9.74	13.75 9.93	13.09 9.69	13.26 10.29	13.40 10.39	13.47 9.71	13.82 10.03	
4	13.40 9.85	13.62 10.20	13.21 9.72	12.86 10.17	13.14 10.38	13.36 9.93	13.41 9.54	13.63 10.03	20	13.68 9.71	13.64 9.77	12.97 9.67	13.22 10.26	13.42 10.24	13.11 9.62	12.99 9.53	
5	13.40 9.86	13.40 9.92	12.97 9.68	12.84 10.04	13.34 10.34	13.57 10.12	13.31 9.47	13.37 10.10	21	13.73 9.84	13.45 9.72	12.94 9.79	13.24 10.26	13.37 10.15	12.89 9.61	12.97 9.57	
6	13.59 9.86	12.78 9.69	12.55 9.57	13.21 10.14	13.39 10.61	14.09 10.55	13.20 9.56	13.27 9.96	22	13.51 9.73	13.30 9.69	13.21 9.92	13.50 10.25	13.28 10.12	12.89 9.65	12.97 9.72	N O
7	13.46 9.96	13.22 9.46	12.67 9.42	13.29 10.44	13.15 10.09	13.76 9.99	12.71 9.20E	13.27 10.06	23	13.34 9.57	12.84 9.78	13.27 10.07	13.07 9.80	13.24 10.19	12.61 9.47	12.94 9.79	
8	13.19 9.91	13.13 9.77	12.68 10.62	13.29 10.33	13.15 10.07	13.31 9.74	12.43 9.34	13.50 10.37	24	13.36 9.66	13.03 9.71	13.44 10.14	13.12 9.79	13.22 10.54	12.44 9.43	12.98 9.91	R E C O R D
9	12.87 9.76	12.77 9.81	12.89 9.77	13.49 10.14	13.24 9.89	13.40 10.03	12.70 9.86	13.70 10.18	25	13.46 9.94	13.20 9.86	13.50 10.09	13.39 9.96	13.23 10.23	12.52 9.72	13.07 10.32	
10	12.56 9.52	12.80 9.65	13.03 9.84	13.70 10.26	13.36 9.94	13.29 9.92	12.98 9.89	13.67 10.02	26	13.62 10.25	13.11 9.83	14.07 10.44	13.23 9.89	13.11 10.19	12.68 9.79	13.21 10.05	
11	12.71 9.57	12.72 9.61	13.11 9.98	14.57 10.68	13.51 9.89	13.21 10.09	12.99 9.95	13.87 10.13	27	13.29 10.22	13.51 10.18	13.84 10.14	13.28 9.96	13.04 10.12	12.75 9.82	13.24 9.88	
12	13.35 9.80	12.86 9.74	13.43 9.92	14.13 10.36	13.49 9.86	13.68 10.64	13.11 9.78	14.01 10.03	28	13.14 10.09	13.50 10.01	13.69 9.99	13.21 9.92	12.64 9.86	12.71 9.77	13.54 9.98	
13	13.42 10.25	12.96 9.88	13.54 9.73	14.15 10.36	13.52 9.96	13.46 10.22	13.15 9.69	13.85 9.87	29	13.49 10.30	13.68 9.97	13.89 10.27		13.02 10.26	12.99 9.86	13.81 9.98	
14	13.17 10.23	13.19 10.06	13.56 9.68	14.08 10.38	13.79 10.49	13.31 10.12	13.21 9.64	13.75 9.67	30	14.02 10.56	13.72 9.98	13.97 10.27		13.11 10.39	13.04 9.71	13.80 9.83	
15	12.94 9.97	13.64 10.15	13.54 9.56	14.23 10.38	13.99 10.56	13.37 10.01	13.46 9.75	13.81 9.78	31		13.80 9.98	14.15 10.35		13.16 10.31		13.97 9.83	
16	13.07 9.89	13.82 9.95	13.62 9.56	13.88 10.60	13.52 10.47	13.51 10.09	13.61 9.84	NR NR									

Crest Stages:	Date																
	Time																
	Stage																

NR— No Record

NOTE : Single daily values indicate daily mean stage only

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

TABLE 355

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS*
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	15.94 12.89	17.36 13.72	16.50 12.72	16.27 13.15	15.91 12.81	15.69 12.77	15.97 12.42	16.71 12.60	17	15.96 12.60	16.61 12.65	16.23 12.35	16.31 13.14	16.24 13.07	16.32 12.80	16.35 12.63	16.53 13.03
2	16.09 12.99	16.72 13.02	16.20 12.71	16.23 12.83	16.25 13.24	15.69 12.67	16.00 12.30	16.52 12.54	18	16.21 12.49	16.71 12.67	16.15 12.35	15.98 13.15	16.04 12.99	16.57 12.92	16.39 12.71	16.03 12.69
3	15.99 12.58	16.49 13.02	16.06 12.47	15.91 13.02	15.97 13.24	15.76 12.57	16.24 12.49	16.43 12.64	19	16.15 12.34	16.48 12.67	15.77 12.40	15.94 12.97	16.05 12.92	16.19 12.48	16.42 12.73	15.53 12.39
4	16.03 12.58	16.31 12.87	15.91 12.44	15.53 12.84	15.78 13.01	15.99 12.61	16.09 12.21	16.23 12.68	20	16.32 12.47	16.33 12.47	15.64 12.37	15.87 12.99	16.06 12.77	15.79 12.32	15.62 12.21	15.65 12.47
5	16.08 12.61	16.09 12.62	NR 12.42	15.48 12.73	16.02 12.99	16.24 12.75	16.00 12.14	15.97 12.75	21	16.29 12.47	16.13 12.40	15.61 12.52	15.94 13.00	16.00 12.70	15.57 12.24	15.56 12.28	15.65 12.70
6	16.27 12.66	15.45 12.44	15.20 12.29	15.85 12.85	16.04 13.25	16.71 13.15	15.87 12.21	15.97 12.64	22	16.11 12.39	15.93 12.44	15.84 12.66	16.22 12.99	15.94 12.68	15.57 12.34	15.56 12.42	16.21 13.43
7	16.14 12.70	15.91 12.20	NR 12.12	15.95 13.14	15.82 12.74	16.38 12.61	15.35 11.84	15.90 12.77	23	15.99 12.27	15.57E 12.48	15.96 12.81	15.79 12.52	15.93 12.79	15.27 12.21	15.55 12.49	16.34 13.04
8	15.84 12.64	15.82 12.49	NR 12.47	15.94 13.03	15.82 12.77	15.96 12.32	15.10 12.01	16.11 13.11	24	15.97 12.34	15.75E 12.42	16.08 12.89	15.80 12.54	15.91 13.12	15.11 12.12	15.60 12.64	16.13 12.84
9	15.54 12.48	15.48 12.54	NR 12.51	16.16 12.82	15.90 12.59	16.04 12.68	15.33 12.58	16.26 12.91	25	16.07 12.66	15.78E 12.60	16.19 12.84	16.10E 12.70	15.93 12.80	15.19 12.42	15.67 13.05	16.51 13.08
10	15.28 12.36	15.54 12.44	15.69 12.62	16.34 12.92	16.00 12.61	15.94 12.55	15.62 12.55	16.27 12.73	26	16.25 12.92	15.80 12.60	16.81 13.16	15.97 12.59	15.77 12.72	15.34 12.53	15.80 12.76	16.95 13.25
11	15.38 12.34	15.43 12.37	15.82 12.74	17.19 13.28	16.19 12.52	15.83 12.73	15.63 12.66	16.49 12.81	27	15.94 12.91	16.18 12.95	16.47 12.83	15.88 12.57	15.74 12.67	15.42 12.54	15.85 12.61	16.98 13.01
12	15.90 12.51	15.58 12.54	16.21E 12.68	16.80 12.97	16.14 12.49	16.30 13.27	15.73 12.43	16.62 12.74	28	15.78 12.72	16.20 12.75	NR NR	15.90 12.53	15.32 12.42	15.37 12.51	16.09 12.69	16.87 12.70
13	16.05 12.97	15.66 12.69	16.19 12.47	16.78 12.95	16.15 12.59	16.07 12.82	15.76 12.30	16.47 12.64	29	16.11 12.97	16.36 12.76	NR 12.93		15.68 12.84	15.67 12.60	16.41 12.67	16.68 12.46
14	15.78 12.94	15.92 12.82	16.19E 12.34	16.74 12.99	16.39 13.06	15.99 12.81	15.85 12.26	16.38 12.40	30	16.62 13.27	16.39 12.71	16.61 13.04		15.76 12.97	15.73 12.40	16.41 12.53	16.40 12.24
15	15.58 12.66	16.34 12.88	16.25E 12.25	16.85 13.20	16.64 13.19	16.05 12.70	16.10 12.40	16.46 12.54	31		16.48 12.72	16.79 13.04		15.80 12.94		16.56 12.50	
16	15.69 12.64	16.47 12.68	16.26 12.35	16.57 13.20	16.15 13.06	16.18 12.79	16.24 12.52	16.50 12.75									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record

E - Estimated

* - In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

NOTE : Single daily values indicate daily mean stage only.

TABLE 356

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
THREEMILE SLOUGH AT SAN JOAQUIN RIVER

In feet

Date	1960		1961						Date	1960		1961					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	12.65 9.58	14.10 10.46	NR NR	12.91 9.47	12.80 9.47	12.37 9.52	12.68 9.15	13.45 9.30	17	12.66 9.31	13.28 9.28	12.95 9.00	13.07 9.79	12.95 9.73	13.04 9.50	13.06 9.33	13.24 9.73
2	12.83 9.69	13.53 9.77	NR NR	12.89 9.47	12.83 9.88	12.38 9.35	12.68 9.00	13.28 9.25	18	12.96 9.21	13.39 9.27	12.85 9.00	12.70 9.81	12.71 9.68	13.18 9.63	13.08 9.39	12.68 9.39
3	12.73 9.32	13.29 9.62	NR NR	12.58 9.67	12.63 9.69	12.48 9.30	12.91 9.15	13.15 9.33	19	12.92 9.08	13.17 9.27	12.47 9.03	12.68 9.65	12.73 9.64	12.83 9.15	13.17 9.42	12.25 9.13
4	12.77 9.34	13.07 9.36	NR NR	12.19 9.50	12.47 9.70	12.69 9.31	12.75 8.86	12.90 9.34	20	13.09 9.08	13.03 9.13	12.28 9.02	12.63 9.69	12.75 9.50	12.46 9.03	12.29 8.95	12.38 9.23
5	12.77 9.34	12.86 9.36	NR NR	12.18 9.41	12.64 9.70	12.95 9.46	12.66 8.83	12.65 9.38	21	13.06 9.22	12.82 9.04	12.26 9.14	12.65 9.69	12.69 9.43	12.25 9.00	12.24 8.98	12.87 9.43
6	13.00 9.36	12.20 9.21	NR NR	12.56 9.57	12.75 9.95	13.37 9.85	12.55 8.90	12.63 9.33	22	12.84 9.12	12.55 9.03	12.52 9.31	12.83 9.70	12.59 9.39	11.95 9.09	12.25 9.16	13.03 10.15
7	12.80 9.42	12.67 8.97	NR NR	12.67 9.87	12.50 9.48	13.11 9.33	12.06 8.59	12.63 9.48	23	12.72 9.01	12.11 9.11	12.59 9.50	12.47 9.25	12.55 9.46	11.95 8.95	12.30 9.21	13.03 9.78
8	12.54 9.37	12.50 9.30	NR NR	12.66 9.79	12.53 9.50	12.63 9.06	12.03 8.73	12.87 9.82	24	12.72 9.11	12.33 9.05	12.73 9.58	12.50 9.24	12.57 9.81	11.79 8.86	12.30 9.33	12.85 9.60
9	12.20 9.23	12.15 9.27	NR NR	12.88 9.60	12.62 9.26	12.69 9.35	12.03 9.20	12.90 9.63	25	12.80 9.46	12.47 9.24	12.84 9.51	12.79 9.33	12.53 9.53	11.85 9.15	12.42 9.78	13.18 9.77
10	11.88 9.11	12.19 9.16	12.35 9.33	13.12 9.68	12.66 9.27	12.65 9.29	12.33 9.33	13.05 9.45	26	13.01 9.72	12.40 9.24	13.44 9.83	12.63 9.28	12.42 9.47	12.06 9.23	12.56 9.53	13.69 9.98
11	12.08 9.11	12.10 9.11	12.48 9.43	13.97 10.05	12.79 9.22	12.57 9.46	12.35 9.39	13.20 9.50	27	12.70 9.70	12.75 9.59	13.15 9.49	12.57 9.25	12.38 9.40	12.13 9.25	12.58 9.35	13.67 9.67
12	12.63 9.28	12.26 9.26	12.76 9.35	13.55 9.65	12.79 9.13	12.95 9.97	12.45 9.19	13.31 9.47	28	12.51 9.52	12.79 9.35	13.00 9.37	12.59 9.24	12.03 9.10	12.11 9.25	12.90 9.45	13.64 9.42
13	12.80 9.74	12.35 9.42	12.85 9.13	13.56 9.65	12.83 9.23	12.77 9.57	12.47 9.05	13.21 9.33	29	12.88 9.76	13.00 NR	13.23 9.60		12.33 9.55	12.32 9.30	13.16 9.40	13.43 9.17
14	12.53 9.68	12.63 9.49	12.93 9.01	13.51 9.69	13.10 9.75	12.71 9.53	12.59 9.03	13.15 9.15	30	13.40 10.03	NR NR	13.27 9.69		12.45 9.65	12.45 9.12	13.15 9.20	13.15 8.95
15	12.26 9.42	13.05 9.56	12.90 8.90	13.63 9.91	13.29 9.83	12.77 9.40	12.78 9.11	13.19 9.25	31		NR NR	13.45 9.75		12.48 9.65		13.32 9.23	
16	12.41 9.33	13.16 9.33	12.97 8.97	13.29 9.91	12.83 9.70	12.93 9.48	12.97 9.19	13.23 9.50									

Crest Stages:	Date											
	Time											
	Stage											

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 357

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT ANTIOCH

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	12.82 9.05	14.20 9.87	13.44 8.87	13.23 9.02	13.00 9.16	12.58 9.07	12.87 8.62	13.68 8.81	17	12.90 8.82	13.71 8.84	13.25 8.45	13.32 9.28	13.34 9.25	13.20 8.95	13.28 8.80	13.29 9.21
2	13.00 9.16	13.65 9.17	13.09 8.66	13.23 9.26	13.26 9.64	12.67 8.89	12.90 8.45	13.48 8.75	18	13.13 8.61	13.85 8.84	13.18 8.45	13.04 9.28	13.12 9.34	13.28 9.02	13.17 8.92	12.71 8.95
3	12.93 8.77	13.42 9.00	12.98 8.66	12.86 9.08	12.89 9.22	12.73 8.85	13.06 8.56	13.33 8.82	19	13.12 8.47	13.63 8.63	12.78 8.48	12.98 9.18	13.18 9.28	12.96 8.64	13.22 8.95	12.35 8.76
4	12.97 8.79	13.22 8.74	12.76 8.66	12.46 9.08	12.70 9.22	12.98 8.88	12.91 8.30	13.02 8.82	20	13.24 8.57	13.48 8.59	12.59 8.51	12.95 9.31	13.18 9.22	12.52 8.56	12.42 8.58	12.51 8.91
5	12.94 8.83	12.99 8.69	12.51 8.63	12.46 9.06	12.92 9.25	13.20 8.97	12.76 8.29	12.74 8.84	21	13.21 8.48	13.26 8.59	12.57 8.73	12.96 9.33	13.16 9.21	12.37 8.57	12.30 8.62	13.05 9.14
6	13.13 8.90	12.29 8.69	12.04 8.61	12.85 9.26	12.95 9.55	13.56 9.33	12.64 8.39	12.86 8.89	22	13.02 8.48	12.94 8.62	12.84 8.98	12.94 9.31	13.04 9.32	12.07 8.67	12.39 8.79	13.14 9.81
7	12.85 8.90	12.73 8.42	12.13 8.46	12.95 9.60	12.73 9.10	13.26 8.89	12.19 8.13	13.09 9.06	23	12.80 8.39	12.49 8.73	12.89 9.20	12.68 8.93	13.04 9.43	11.91 8.59	12.46 8.89	13.05 9.55
8	12.55 8.85	12.60 8.80	12.25 8.83	12.95 9.53	12.75 9.15	12.79 8.63	12.21 8.31	13.09 9.43	24	12.82 8.50	12.73 8.71	13.04 9.27	12.66 8.91	13.06 9.85	11.91 8.48	12.62 9.06	13.05 9.25
9	12.22 8.75	12.34 8.89	12.48 8.98	13.17 9.25	12.79 8.92	12.85 8.92	12.21 8.70	13.20 9.15	25	12.89 8.88	12.86 8.96	13.14 9.18	13.04 9.01	13.06 9.53	12.00 8.73	12.62 9.38	13.34 9.33
10	11.89 8.66	12.44 8.84	12.63 9.09	13.40 9.28	12.86 8.91	12.89 8.80	12.55 8.84	13.26 8.98	26	13.08 9.15	12.79 9.03	13.70 9.49	12.99 8.93	13.03 9.38E	12.23 8.81	12.76 9.14	13.85 9.48
11	12.12 8.69	12.38 8.78	12.74 9.10	14.26 9.54	13.04 8.78	12.81 8.80	12.59 8.99	13.41 9.01	27	12.82 9.20	13.18 9.36	13.41 9.09	12.94 8.90	12.81E 9.23E	12.29 8.86	12.75 8.88	13.89 9.17
12	12.69 8.92	12.56 9.01	13.01 8.94	13.84 9.16	13.06 8.70	13.16 8.98	12.69 8.69	13.48 8.89	28	12.64 9.02	13.16 9.02	13.26 8.97	12.96 8.91	12.47E 8.87E	12.30 8.82	13.16 8.98	13.85 8.91
13	12.87 9.33	12.69 9.16	13.11 8.66	13.92 9.09	13.19 8.79	13.00 9.08	12.70 8.54	13.41 8.83	29	13.03 9.23	13.33 8.99	13.46 9.22		12.57E 9.08	12.53 8.86	13.34 8.89	13.62 8.59
14	12.64 9.29	12.99 9.15	13.21 8.49	13.88 9.14	13.44 9.26	12.91 9.03	12.84 8.45	13.31 8.64	30	13.55 9.47	13.36 8.93	13.55 9.29		12.72 9.22	12.63 8.60	13.35 8.63	13.37 8.40
15	12.47 9.00	13.42 9.18	13.24 8.34	13.96 9.32	13.62 9.26	13.02 8.88	12.98 8.58	13.35 8.80	31		13.40 8.90	13.75 9.32		12.69 9.21		13.56 8.72	
16	12.64 8.89	13.59 8.89	13.30 8.38	13.64 9.22	13.23 9.36	13.16 8.96	13.15 8.68	13.36 9.05									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

LAHONTAN REGION

LAHONTAN REGION

Introduction

The Lahontan Region covers the same portion of eastern California as does the Lahontan Water Pollution Control Region 6. This report presents data from that portion of the region north o the Mono divide. The principle stream systems in the area rise o the eastern slopes of the Sierra Nevada and the Cascade Range and drain into inland lakes or sinks. Data tabulated in this report show daily mean discharge at stations in Surprise Valley and Eagl Lake, Honey Lake, and Lake Tahoe basins.

Storms crossing the mountains along the western edge of the area lose much of their moisture before entering the area and precipitation ranges from 50 inches at the higher elevations to less than 10 inches along the eastern edge. Streamflow results from surface runoff and snowmelt principally at the higher elevations.

The 1960-61 water year was the third successive dry yea statewide. In the Lahontan Region precipitation was less than 70 percent of normal and runoff about 50 percent, the year being the driest since 1931.

Tabular Information

On the following pages data are tabulated for 11 gaging stations for the 1961 water year.

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT.	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
BIDWELL CREEK NEAR FORT BIDWELL																
41 52 57	120 10 25	SE 6 46N 16E	64	3.34	5/20/61	374E	4.32	5/11/58	9023	10860	APR 55-OCT 578 MAY 58-DATE	APR 55-OCT 578 MAY 58-DATE	1958		0.00	LOCAL
Station located E of New Pine Creek-Fort Bidwell Highway, 2.0 mi. NW of Fort Bidwell. Tributary to Upper Alkali Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 50 sq. mi. (f)																
BACKWOOD CREEK NEAR TAHOE CITY																
39 06 27	120 09 37	NE36 15N 16E	200	5.98	5/10/61	401E	6.50	5/23/58	14000	17690	JAN 58-DATE	JAN 58-DATE	1958		0.00	LOCAL
Station located below State Highway 89 bridge, 4.6 mi. S of Tahoe City. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. Drainage area is 11.4 sq. mi. (f)																
CEDAR CREEK AT CEDARVILLE																
41 31 48	120 11 15	SE 6 42N 16E	39E	3.86	8/11/61	62	3.95E	2/8/60	2168	2749	MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located below Cedarville-Alturas Highway culvert, immediately W of Cedarville. Tributary to Middle Alkali Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 25 sq. mi. (f)																
EAGLE CREEK AT EAGLEVILLE																
41 18 38	120 07 27	NE26 40N 16E	41	2.88	6/5/61	78E	3.39	6/19/58	4156	4385	MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located 0.7 mi. SW of Eagleville. Tributary to Middle Alkali Lake. Stage-discharge relationship at times affected by ice. (f)																
EAGLE LAKE NEAR SUSANVILLE																
40 36 45	120 43 34	SW22 32N 11E		4.10	3/24/61 3/27/61		7.25	6/19/58				OCT 56-DATE	1956		5095.06	USCGS
Station located on east shore, 14 mi. NW of Susanville. Maximum gage height listed does not indicate maximum discharge. (s)																
GOLD RUN CREEK NEAR SUSANVILLE																
40 21 26	120 42 11	SE23 29N 11E	30	2.26	5/18/61	483E	3.81	2/24/58	2673	2817	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 5.0 mi. SW of Susanville. Tributary to Honey Lake via Susan River. Stage-discharge relationship at times affected by ice. Drainage area is 7.2 sq. mi. (f)																
LONG VALLEY CREEK NEAR DOYLE																
39 55 44	120 01 06	SE13 24N 17E	102	1.86	8/12/61	1200E	3.98	2/24/58	5733	6836	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located at U. S. Highway 395 bridge, 8.1 mi. SE of Doyle. Tributary to Honey Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 150 sq. mi. (f)																
PINE CREEK NEAR SUSANVILLE																
40 39 49	120 48 33	SE 2 32N 10E	90	3.29	4/5/61				2979	5256	JUL 56-DATE	JUL 56-DATE	1956		0.00	LOCAL
Station located 1.8 mi. above mouth, 18 mi. NW of Susanville. Tributary to Eagle Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 110 sq. mi. (f)																

E - Estimated # - Flood season only
(s) - Record of stage published (f) - Record of flow published

TABLE 358

GAGING STATION DESCRIPTION
LAHONTAN REGION
NORTHERN AND DELTA BRANCHES (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1960-61 WATER YEAR			OF RECORD			1960-61 WATER YR. IN AC.-FT	1960 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
TROUT CREEK NEAR TAHOE VALLEY																
38 55 12	119 58 17	SE 3 12N 18E	64	6.70	6/14/61	244	7.91	5/23/58	9940	10180	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 15 ft. below Martin Ave. bridge, 1.8 mi. E of Tahoe Valley. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. Flow affected by upstream diversions. Flows listed are not considered to have the same degree of accuracy as other records published in this report. Drainage area is 35.2 sq. mi. (f)																
UPPER TRUCKEE RIVER NEAR MEYERS																
38 50 35	120 01 25	SE31 12N 18E	394	6.79	5/25/61	1420E	8.70	5/23/58	18990	22530	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located approx. 0.1 mi. E of State Highway 89, 1.1 mi. SW of Meyers. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. Drainage area is 33.1 sq. mi. (f)																
WILLOW CREEK NEAR LITCHFIELD																
40 26 36	120 26 44	SW19 30N 14E	62	3.34	2/11/61	1650E	8.99	2/8/60	15070	23910	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 5.3 mi. NW of Litchfield, 11 mi. NE of Susanville. Tributary to Honey Lake. Stage-discharge relationship at times affected by ice. (f)																

TABLE 359

GAGING STATION
ADDITIONS and DISCONTINUATIONS

LAHONTAN REGION

ADDITIONAL STATIONS
None

DISCONTINUED STATIONS
None

PUBLICATION DISCONTINUED
None

TABLE 360

DAILY MEAN DISCHARGE
BIDWELL CREEK NEAR FORT BIDWELL

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.1	2.9	4.1	4.5 E	5.7	6.7	24	30	51	11	4.6	3.4•
2	2.8	2.8	3.6	4.4 E	9.4	6.8	36	30	52	11	4.2•	3.6
3	3.0	3.1	3.5	4.2 E	8.1	6.0	46	31	53	11	4.1	3.6
4	2.9	2.7	3.3	4.2 E	6.8	6.3	42	30	55	11	4.1	3.6
5	2.9	3.0 E	3.2 E	4.3 E	6.2	6.3	36	27	55•	10	4.8	3.4
6	3.0	4.3	3.1 E	4.2 E	6.4	5.5	31	27	55	9.3•	5.2	3.3
7	3.7	4.8	3.2 E	5.7 E	5.9	5.2	29	23	52	9.1	4.4	2.9
8	4.0	3.7	3.4 E	8.0 E	6.0	5.0	28	24	50	8.3	4.3	2.9
9	3.7	3.5	3.5 E	5.5 E	8.3	5.6	27	29	48	7.7	3.6	3.1
10	3.8	3.8	3.4 E	4.3 E	9.9	5.7	28	33	45	7.7	3.7	3.0
11	3.9	7.9	3.5 E	4.2	9.8	6.1	31	33	46	7.1	3.7	2.9
12	4.1	4.6	3.4• E	4.2	8.5	5.8	36	30	46	7.3	4.1	2.9
13	3.4	4.2	4.0 E	3.9	7.6	7.1	31	29	40	7.0	3.9	2.7
14	3.2	3.7	4.2	3.9	7.2	8.1	26	34	37	6.8	3.9	2.7
15	3.4	3.9	3.6	3.7	6.9	8.8	28	37	34	6.2	3.5	2.6
16	3.3	4.4	3.4	3.7	6.6	7.5	36	37	34	5.9	3.2	2.9
17	3.3	6.0	9.7	3.9	6.1	7.2	43	42•	30	6.4	3.1	3.4
18	3.1	11	14	3.9	6.9	7.1	41	45	29	5.8	3.2	4.4
19	3.2	4.8	8.7	4.1	5.7	7.4	35	47	27	5.8	3.1	3.0
20	2.9	4.5	5.9	3.9 E	5.9	7.4	30	55	24	5.7	3.9	2.6
21	2.7	4.1	5.6	3.9 E	6.8•	7.9	24	57	24	5.7	3.9	2.8
22	2.7	4.0	5.4•	4.2 E	7.6	9.4	23	55	22	5.1	3.4	2.8
23	2.7	4.2	5.0	4.2	7.0 E	14	21	51	19	5.8	3.1	3.0
24	2.8	5.5	5.0	4.4	7.0	13	17	51	19	5.2	2.7	2.8
25	2.8	5.8	4.9	4.1•	6.6	12	17	51	18	5.3	3.3	2.5
26	3.4	5.3	4.6	4.1	5.5 E	11	17•	52	16	5.2	3.4	2.6
27	3.2•	4.9 E	4.5 E	3.8 E	6.2	9.7	19	50	14	4.6	3.1	2.5
28	3.3	4.4 E	4.3 E	4.5 E	5.6	9.6	24	46	14	4.8	4.0	2.4
29	3.1	3.8 E	4.0 E	4.4		11•	28	46	14	4.7	3.7	2.5
30	3.1	3.8 E	4.3 E	4.4		15	31	48	12	5.2	3.5	2.6
31	3.1		4.7 E	9.6		19		45		4.8	3.2	
Mean	3.2	4.5	4.7	4.5	7.0	8.5	29.5	39.5	34.5	7.0	3.7	3.0
Max. Mean	4.1	11	14	9.6	9.9	19	46	57	55	11	5.2	4.4
Min. Mean	2.7	2.7	3.1 E	3.7	5.5 E	5.0	17	23	12	4.6	2.7	2.4
Ac.-Ft	198	269	292	278	389	522	1755	2430	2053	429	230	178

E – Estimated NR – No Record

Total Discharge in Acre-Feet 9023

• Discharge measurement (or observation of no flow) made on this day.

TABLE 361

DAILY MEAN DISCHARGE
CEDAR CREEK AT CEDARVILLE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	1.6	1.2	1.8	3.8	5.4	8.2	6.5	1.1	0.2	0.2
2	0.1	0.1	1.4	1.2	4.9	4.1	3.4	7.9	6.4	1.1	0.1•	0.2
3	0.1	0.2	1.4	1.2	4.1	4.2	3.1	7.8	5.8	1.1	0	0.2
4	0.1	0.1	1.3	1.1	3.2	3.9	5.0	7.9	4.9	1.1	0	0.2
5	0.1	0.1	1.3	1.0	2.6	3.9	6.6	7.5	4.8•	1.0	0.1	0.2
6	0.1	0.3	1.3	1.2	3.4	3.6	7.4	7.8	4.4	0.8•	0.2	0.2
7	0.3	1.0	1.2	1.4	2.9	3.8	7.0	8.8	4.2	0.8	0.6	0.2
8	0.5	1.3	1.2	1.5	2.7•	4.0	7.0	8.6	3.8	0.9	1.1	0.2
9	0.4	1.6	1.0	1.4	4.3	4.1	7.6	9.1	3.7	0.7	1.1	0.1
10	0.3	0.7	1.0	1.1	5.2	4.3	9.2	8.5	3.5	0.6	0.8	0.1
11	0.3	1.4	1.0	1.0	5.2	4.5	9.5	8.8	3.5	0.5	11	0.1
12	0.4	1.0	1.0•	0.9	4.9	4.4	9.2	9.5	3.5	0.6	19	0.1
13	0.4	0.5	1.0	0.9	4.9	5.9	9.2	9.7	2.8	0.5	6.2	0.1
14	0.4	0.4	1.0	0.8	4.9	7.9	9.2	10	2.5	0.5	1.4	0.1
15	0.4	0.8	1.0	0.6	4.5	8.8	10	10	2.3	0.4	0.7	0.1
16	0.3	0.9	1.1	0.7	4.1	8.6	10	11	2.1	0.3	0.6	0.2
17	0.2	0.9	4.3	0.7	3.8	7.5	10	10•	1.9	0.3	0.6	0.3
18	0.3	2.7	11	0.7•	3.6	7.4	10	11	1.8	0.3	0.5	0.4
19	0.3	2.0	7.9	0.7	3.4	8.6	9.9	10	1.8	0.3	0.5	0.2
20	0.3	1.7	5.4	0.7	4.0	8.5	10	11	1.6	0.3	0.6	0.2
21	0.2	1.2•	3.9	0.6	4.6•	9.3	9.5	11	1.5	0.2	0.5	0.2
22	0.2	1.1	2.8•	0.5	4.9	11	9.9	10	1.5	0.2	0.5	0.2
23	0.2	1.2	2.5	0.5	4.8	6.9	9.5	11	1.3	0.2	0.4	0.2
24	0.2	1.7	2.5	0.7	4.9	7.7	9.5	9.3	1.6	0.2	0.3	0.2
25	0.2	1.5	2.1	0.8•	4.6	7.2	9.5	9.1	2.1	0.1	0.3	0.2
26	0.4	1.7	1.7	0.9	3.9	7.2	9.2•	8.5	2.1	0.1	0.3	0.1
27	0.3•	2.0	1.6	1.2	4.1	8.5	8.2	7.5	1.8	0.1	0.3	0.1
28	0.3	1.4•	1.4	1.0	3.6	8.5	8.2	7.5	1.4	0.1	0.3	0.1
29	0.3	1.4	1.5	1.3		8.5•	8.2	7.1	1.3	0.1	0.4	0.1
30	0.3	1.4	1.4	1.3		8.6	8.8	7.2	1.1	0.1	0.3	0.1
31	0.2		1.4	3.3		7.6		6.8		0.2	0.3	
Mean	0.3	1.1	2.3	1.0	4.1	6.5	8.3	9.0	2.9	0.5	1.6	0.2
Max Mean	0.5	2.7	11	3.3	5.2	11	10	11	6.5	1.1	19	0.4
Min. Mean	0.1	0.1	1.0	0.5	1.8	3.6	3.1	6.8	1.1	0.1	0	0.1
Ac.-Ft	16	64	139	64	226	402	494	552	174	29	98	10

E – Estimated NR – No Record

Total Discharge in Acre-Feet 2268

• Discharge measurement (or observation of no flow) made on this day.

TABLE 362

DAILY MEAN DISCHARGE
EAGLE CREEK AT EAGLEVILLE

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	1.2	0.9	2.0	1.5 E	1.4	1.4	3.8	7.0	24	9.5	2.3	1.5•
2	1.1	1.0	2.0	1.6 E	1.5	1.5 E	7.5	6.4	26	8.5	2.1•	1.6
3	1.0	1.8	1.8 E	1.6 E	1.5	1.4 E	10	7.6	30	8.4	2.0	1.7
4	1.0	2.5	1.7 E	1.6 E	1.1	1.5 E	7.7	6.9	36	8.7	2.0	1.6
5	1.1	3.9	1.7 E	1.7 E	1.0	1.3 E	6.0	5.7	38•	8.0 E	2.0	1.6
6	1.0	1.6	1.7 E	1.6 E	1.2	1.3 E	5.6	5.7	39	6.3• E	2.1	1.6
7	1.1	1.3	1.7 E	1.5 E	1.3	1.3 E	5.4	5.6	39	5.7	2.2	1.3
8	1.2	1.4	1.7 E	1.6 E	1.2	1.4 E	5.2	7.5	40	5.4	2.1	1.2
9	1.0	1.8	1.7 E	1.5 E	3.9	1.4	5.4	9.1	36	4.9	2.0	1.2
10	1.0	1.4	1.7 E	1.5 E	2.5	1.5	5.4	8.2	34	4.5	1.8	1.1
11	1.0	2.0	1.6 E	1.5 E	1.8	1.4	6.3	6.7	33	4.4	2.3	1.1
12	1.0	1.7	1.6• E	1.6 E	2.2	1.5	6.7	5.7	32	4.2	2.1	1.1
13	0.9	1.6	1.7	1.6 E	1.7	1.6	4.9	6.4	32	4.0	1.9	1.0
14	0.8	2.3	1.6	1.5 E	1.4	1.6	4.5	8.7	32	4.1	1.8	1.0
15	0.7	3.3	1.6	1.4 E	1.5	1.4	5.4	8.8	31	3.9	1.8	1.0
16	0.7	1.9	1.7	1.5 E	1.5 E	1.3	7.9	11	33	3.8	1.8	1.1
17	0.7	2.5	2.2	1.5 E	1.5 E	1.4	13	13•	33	3.5	1.7	1.1
18	0.7	2.2	2.3	1.5 E	1.4 E	1.5	10	18	34	3.5	1.8	1.1
19	0.7	2.3	1.8	1.5 E	1.6 E	1.4	7.0	22	33	3.3	1.8	1.1
20	0.6	1.4	1.9	1.4 E	1.4 E	1.5	5.9	29	30	3.2	1.6	0.9
21	0.6	1.6•	1.8	1.4 E	1.5•	1.6	5.5	33	29	3.0	1.5	1.0
22	0.6	4.5	1.9•	1.4 E	1.6 E	2.2	4.9	31	27	2.9	1.5	1.0
23	0.7	1.7	1.7 E	1.4 E	1.4 E	2.6	4.4	29	24	2.9	1.5	1.0
24	0.9	2.2	1.7 E	1.4 E	1.5 E	2.0	4.1	28	22	2.8	1.5	1.0
25	0.9	2.0	1.7	1.4• E	1.5 E	1.9	4.1	29	20	2.8	1.7	1.0
26	0.9	2.0	1.6 E	1.4	1.3 E	1.7	4.1•	32	19	2.8	1.5	0.9
27	0.9•	2.7	1.6 E	1.4	1.3 E	2.0	4.6	33	17	2.3	1.5	1.0
28	0.9	12	1.4 E	1.5	1.3 E	2.2	5.4	30	15	2.3	1.6	1.0
29	0.9	8.5	1.4 E	1.4		1.7•	6.2	28	13	2.3	1.5	1.0
30	1.1	2.9	1.5 E	1.3		1.9	7.4	26	11	2.3	1.5	1.0
31	1.0		1.5 E	1.3		2.7		23		2.3	1.5	
Mean	0.9	2.6	1.7	1.5	1.6	1.6	6.1	16.8	28.7	4.4	1.8	1.2
Max. Mean	1.2	12	2.3	1.7	3.9	2.7	13	33	40	9.5	2.3	1.7
Min. Mean	0.6	0.9	1.4	1.3	1.0	1.3	3.8	5.6	11	2.3	1.5	0.9
Ac-Ft.	55	156	106	91	87	101	366	1033	1710	271	111	69

E - Estimated NR - No Record

Total Discharge in Acre-Feet 4156

• Discharge measurement (or observation of no flow) made on this day.

TABLE 363

DAILY MEAN DISCHARGE
PINE CREEK NEAR SUSANVILLE

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0•	1.2	25	4.0	0.1			
2					47	6.9	37	5.0	0.2			
3					44	5.6	53	5.7	0.1			
4					30	2.5	76	6.0	0			
5					23	2.4	81	4.9	0			
6					17	1.8	60•	4.8	0•			
7			•		9.6	1.2	49	5.5	0			
8					6.9	0.8	38	5.7	0			
9					5.4	0.7	28	5.2	0			
10					25	2.9•	21	5.0	0			
11					45	2.3	17	4.8	0			
12	M	M	M	M	14	4.0	13	7.0•	0	M	M	M
13	0	0	0	0	34	3.0	10	11	0	0	0	0
14					28	2.8	11	12	0		•	
15					24	6.7	9.1	9.3	0			
16	F	F	F	F	16	9.8	7.0	7.0	0	F	F	F
17	L•	L	L	L	13	6.2	6.2	4.8	0	L	L	L
18	0	0	0	0	8.3	7.0	6.1	3.1	0	0	0	0
19	W	W	W	W	5.4	5.4	6.8	2.2	0	W	W	W
20					4.4	8.4	10	1.7	0			
21					3.1	8.5•	11	1.4	0			
22					4.3	10	10	1.1•	0			
23				•	1.9	20	12	1.1	0			
24					1.8•	29	17	0.9	0			
25					3.6	29	17	0.5	0			
26					3.2	23	14	0.1	0			
27					2.2	16	14	0	0			
28					1.2	14	11	0	0•			
29						14	8.0	0	0			
30						15	5.6	0	0			
31						16		0				
Mean	0	0	0	0	15.0	8.9	22.8	3.9	0.0	0	0	0
Max. Mean	0	0	0	0	47	29	81	12	0.2	0	0	0
Min. Mean	0	0	0	0	0.0	0.7	5.6	0.0	0.1	0	0	0
Ac-Ft.	0	0	0	0	836	548	1356	238	1	0	0	0

E - Estimated NR - No Record

Total Discharge in Acre-Feet 2979

• Discharge measurement (or observation of no flow) made on this day.

TABLE 364

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR LITCHFIELD

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	17	33	27	33	26	18	16	19	13	13	12
2	16	16	43	27	42	26	18	17	17	13	13	13
3	16	18	41	27	41	25	18	17	17	13	13	13
4	15	17	39	28	39	24	18	17	18	13	13	13
5	15	17	37*	27	38	23	17	17*	17	13	13	13
6	16	19	34	27	37	23	16	17	16*	13	14	13
7	16	18	33	27	37	23	15*	16	15	14	14	13*
8	16	18	33	29	35	22	15	16	15	15	14	13
9	15	23	32	30*	36*	22	15	16	15	14	14*	13
10	15	25	31	30	36	24*	15	15	14	14	14	13
11	15	27	30	30	46	24	15	16	14	14	14	13
12	16	29	31	30	52	25	15	15	15	14	14	13
13	16	29	33	29	46	25	15	15	14	14*	14	13
14	15	29	32	29	44	24	14	16	15	14	14	13
15	15	28	31	29	42	24	14	16	15	14	15	13
16	16	29*	31	30	42	25	14	16	15	14	13	14
17	16	30	35	29	41	26	14	15	15	14	13	14
18	16	31	37	29	41	26	14	15	15	14	13	14
19	16*	30	34	30	39	26	15	14	14	14	13	14
20	16	29	32	30	37	25	15	15	14	13	13	14
21	16	29	32	30	34	24	15	15	14	13	13	14
22	16	28	31	30	23	22	16	15	14	13	13	14
23	17	29	30	30*	21	21	18	15	14	13	13	13
24	17	29	30	30	26	21	22	15	15	13	13	13
25	17	28	29	31	28	21	23	16	14	13	13	13
26	17	33	29	31	28	22	21	15	14	13	13	13
27	16	33	29	32	28	23	19	15	14	12	13	14
28	16	31	27	32	28	23	18	15	13	12	13	14
29	17	30	28*	32		22	17	15	13	13	14	13
30	17	30	28	32		22	17	15	13	13	13	13
31	17		27	34		17		15		13	13	
Mean	16.0	26.0	32.3	29.6	36.4	23.4	16.5	15.6	14.9	13.4	13.4	13.3
Max. Mean	17	33	43	34	52	26	23	17	19	15	15	14
Min. Mean	15	16	27	27	21	17	14	14	13	12	13	12
Ac.-Ft.	986	1545	1987	1821	2023	1440	984	958	887	823	823	789

E - Estimated NR - No Record

Total Discharge in Acre-Feet 15070

* Discharge measurement (or observation of no flow) made on this day.

TABLE 365

DAILY MEAN DISCHARGE
GOLD RUN CREEK NEAR SUSANVILLE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.3	8.0	0.9 E	4.8	1.9	6.4	11	16	1.6	0.2	0.2
2	0.2	0.3	4.4	0.8 E	8.6	2.4	9.6	11	15	1.4	0.2	0.2
3	0.2	0.6	2.4	0.8	6.0	2.3	13	12	14	1.5	0.1	0.2
4	0.2	0.5	1.8	0.9	3.7	2.0	13	12	13	1.3	0.1	0.2
5	0.2	0.5	1.3* E	0.9	2.8	2.1	9.6	11*	12	1.3	0.2	0.1
6	0.5	0.7	1.2 E	0.9	2.5	2.2	8.6	10	12*	1.2	0.3	0.1
7	0.3	0.8	1.2 E	0.9	2.2	1.8 E	8.0*	9.7	11	1.1	0.4	0.1*
8	0.3	0.6	1.1	1.0	2.1	2.0	8.0	12	11	0.9	0.4	0.2
9	0.3	0.5	1.0	1.1*	7.1*	2.4	8.5	15	10	0.8	0.3*	0.2
10	0.4	0.5*	1.0	0.9	9.7	2.0*	8.2	19	9.3	0.7	0.2	0.2
11	0.4	1.1	1.0	0.9	13	2.1	9.1	14	8.9	0.6	0.2	0.2
12	0.4	1.0	1.0	0.8	8.5	2.0	9.9	12	8.4	0.6	0.2	0.1
13	0.4	0.9	0.9	0.9	6.0	2.2	7.9	12	8.0	0.7*	0.2	0.2
14	0.4	0.8	0.9	0.9	5.2	2.9	7.4	14	7.7	0.6	0.2	0.1
15	0.4	0.7	1.0	0.9	5.6	3.4	8.4	16	7.2	0.5	0.2	0.2
16	0.4	0.7	1.1	0.8	5.2	2.9	11	17	6.8	0.4	0.1	0.2
17	0.4	0.9	2.3	0.9 E	3.6	2.6	15	19	6.5	0.4	0.1	0.3
18	0.3	3.4	2.5	0.9 E	2.9	2.4	14	21	5.5	0.4	0.1	0.3
19	0.4*	1.3	2.4	0.9 E	2.8	2.7	11	23	5.0	0.4	0.2	0.3
20	0.4	1.0	1.9	0.9 E	2.3	3.5	9.4	23	4.5	0.3	0.3	0.2
21	0.4	0.9	1.6	0.8 E	2.3	3.0	8.2	22	4.7	0.3	0.2	0.2
22	0.4	0.8	1.5	0.8 E	2.3	4.2	7.5	21*	3.6	0.3	0.1	0.3
23	0.4	1.1	1.3	0.9*	2.0 E	9.4	6.7	19	3.2	0.3	0.1	0.3
24	0.4	2.1	1.2	0.9	2.1	6.7	6.2	17	2.9	0.3	0.1	0.3
25	0.4	1.6	1.2	0.9	2.2	5.6	6.1	17	2.8	0.3	0.2	0.3
26	0.4	1.8	1.1	0.9	1.9 E	5.0	6.6	15	2.5	0.2	0.2	0.3
27	0.5	1.3	1.2 E	1.0	2.0	4.1	7.2	14	2.3	0.2	0.2	0.2
28	0.5	1.1	1.3 E	0.9	1.9	4.0	8.0	13	2.0	0.2	0.2	0.2
29	0.4	1.2	1.3* E	1.0		3.6	9.2	12	1.9	0.2	0.3	0.2
30	0.4	1.1	1.1 E	1.7		3.9	11	13	1.8	0.2	0.2	0.3
31	0.3		1.1 E	8.7		5.0		13		0.2	0.2	
Mean	0.4	1.0	1.7	1.2	4.3	3.3	9.1	15.2	7.3	0.6	0.2	0.2
Max. Mean	0.5	3.4	8.0	8.7	13	9.4	15	23	16	1.6	0.4	0.3
Min. Mean	0.2	0.3	0.9	0.8	1.9	1.8	6.1	9.7	1.8	0.2	0.1	0.1
Ac.-Ft.	22	60	104	72	241	203	541	932	435	38	12	13

E - Estimated NR - No Record

Total Discharge in Acre-Feet 2673

* Discharge measurement (or observation of no flow) made on this day.

TABLE 366

DAILY MEAN DISCHARGE
LONG VALLEY CREEK NEAR DOYLE

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	8.8	7.1	6.2 E	11*	7.6	7.1	7.3	18	4.3	2.9	3.0
2	2.7	9.3	9.7*	6.8 E	13	7.4	6.7	6.8*	13	4.2	2.5	2.7
3	3.3	8.1	6.0	6.5 E	13	8.5	7.3	5.6	10	5.9	2.2	2.4
4	2.6	7.9	6.0	6.2 E	11	7.8	6.1*	6.4	12	3.6	2.1	3.1
5	2.9	8.3	8.6	6.2 E	9.7	8.9	5.4	7.0	7.4	3.5	2.0	2.7
6	3.5	7.1	9.8	6.5 E	9.4	9.0	6.3	5.9	4.6	2.6	5.9	2.7
7	1.5	7.0*	10	5.7 E	8.5	11*	7.1	6.7	4.9	3.1	3.9*	2.6*
8	5.1	6.7	7.5	5.7 E	8.3	9.8	6.4	5.2	3.8	2.8	6.8	3.3
9	4.5	7.0	7.3	6.0*	8.6	9.0	6.7	6.0	2.8	2.0	2.9	3.5
10	6.0	6.9	11	6.6	8.9	9.5	6.2	9.7	3.4	1.9*	1.9	3.5
11	4.6*	6.1	11	8.5	11	8.8	7.1	13	3.1	1.6	3.2	3.5
12	5.4	7.0	9.4	6.7	13	7.6	6.1	16	3.1*	2.7	13	3.3
13	6.6	6.3	10	6.3	11	8.2	7.8	20	1.9	2.9	5.6	2.9
14	6.0	7.0	13	6.4	11	6.8	7.5	22	1.8	3.3	5.0	2.7
15	7.6	5.3	9.2	6.6	9.3	7.7	6.9	23	2.1	3.2	4.2	2.9
16	9.1	5.6	6.9	6.0*	10	6.7	7.3	23	1.8	2.7	4.6	3.5
17	8.9	4.7	8.4	8.2	9.9	8.0	6.8	27	1.6	3.0	4.3	4.2
18	11	3.4	6.5	8.0	10	7.5	6.2	24	1.1	2.4	3.8	4.1
19	11	3.5	6.8	7.3	8.6	7.5	7.3	25	1.7	2.6	3.7	5.5
20	12	3.7	6.2* E	7.7	8.7	7.3	6.6	25	3.3	3.0	3.6	7.0
21	13	3.8	7.2	8.3	8.8	7.0	6.5	24	3.9	3.9	3.4	9.9
22	16	4.5	5.2 E	9.2	8.7	5.7	8.0	26	4.5	3.6	3.2	14
23	17	5.2	6.0 E	10	8.4	6.7	10	27	4.3	4.4	3.9	16
24	18	4.5	5.7 E	7.2	8.3	6.4	9.5	28	3.4	3.7	4.2	19
25	21	3.7	5.7 E	7.9	8.9	7.8	8.5	25	2.9	3.0	3.3	21
26	22	4.1	5.8	8.3	8.7	7.2	9.0	23	3.2	3.6	2.8	25
27	20	4.2	5.9	9.3	8.8	7.1	7.7	23	1.6	3.0	2.5	27
28	16	5.7	7.1 E	7.8	7.5	7.5	7.6	25	2.0	3.7	2.9	30
29	14	4.7	6.8 E	7.9		7.5	7.3	23	3.0	3.5	3.7	31
30	14	4.1	6.0 E	8.4		7.3	7.0	28	3.7	4.1	3.2	33
31	13		6.2 E	11		6.0		31		3.6	3.1	
Mean	9.7	5.8	7.7	7.4	9.7	7.8	7.2	18.3	4.5	3.3	3.9	9.8
Max. Mean	22	9.3	13	11	13	11	10	31	18	5.9	13	33
Min. Mean	1.5	3.4	5.2	5.7	7.5	5.7	5.4	5.2	1.1	1.6	1.9	2.4
Ac-Ft.	597	346	472	455	540	478	428	1126	266	201	239	585

E - Estimated NR - No Record

Total Discharge in Acre-Feet 5733

* Discharge measurement (or observation of no flow) made on this day.

TABLE 367

DAILY MEAN DISCHARGE
BLACKWOOD CREEK NEAR TAHOE CITY

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5 E	2.9	5.1		4.5 E	8.3	24	60	74	12	2.4	1.3
2	1.4 E	2.8	6.1		5.6 E	10	33	56	86	11	2.5	1.2
3	1.3 E	4.9	4.0 E		5.0 E	9.7	54	62	84	12	2.2	1.3
4	1.3 E	6.8	3.8 E		4.5 E	9.2	69	62	90	11	1.9	1.4
5	1.5 E	8.2	3.8 E		4.0 E	9.6	62	55	93	9.5	1.8	1.2
6	1.5 E	10			3.6 E	8.4 E	57	51	94	9.1	1.8	1.1
7	1.5 E	8.9			3.3 E	7.3 E	55	48	90	8.5*	2.1	1.0
8	1.7 E	7.6	3.5 E		3.0 E	7.1	53	55	88	7.2	2.4*	0.9
9	1.6 E	6.3			7.0 E	8.3	53	72	78	7.4	1.9	1.1
10	1.5 E	6.6			20 E	7.3*	50	100	77	7.1	1.5	1.1
11	1.7 E	7.9	3.5	*	18 E	8.6	55 *	76	72	6.7	2.0	1.1
12	1.6 E	9.7	3.6 E		14 E	7.7	58	64	68	6.4	1.8	0.9
13	1.6 E	5.2	3.6 E	2.8 E	11 E	8.0	48	63	69	6.1	1.2	1.0
14	1.5 E	4.2	3.8		10 E	9.4	47	72	70	6.0	1.1	1.0
15	1.5 E	3.1	3.5*		9.6 E	9.7	51	78	67	5.9	1.1	1.0
16	1.5 E	2.1	3.8		10 E	8.8	64	87	61	4.9	1.0	3.2
17	1.5 E	2.0*	6.2		9.0*E	10	78	94	57	4.3	1.3	2.5
18	1.7 E	5.7	5.0		8.0 E	8.1	70	108	50	4.0	0.9	1.5
19	1.5*E	3.9	4.5		7.5 E	9.6	57	120	46	4.3	1.3	1.3
20	1.3	2.9	4.0 E		7.5 E	13	49	125	44	4.2*	1.5	1.2
21	1.1	2.5	4.0		9.0 E	14	45	122	40	3.7	1.1	1.2
22	1.0	2.0			12	16		122	36	3.7	1.1	1.2
23	1.7	1.2			11	22*	34 E	117	33	3.4	1.0	1.3
24	2.5	1.3	3.8 E		10	19		115	30	3.1	1.1*	1.1
25	2.0	1.4			11	15	29	122 *	26	2.9	1.2	1.1
26	3.2	2.6	3.5	4.0 E	9.5	14	32	105	23	3.2	1.1	1.1*
27	3.1	1.7	3.5 E	4.0 E	10	13	37 *	88	20	2.9	1.2	1.4
28	2.4	1.9	3.5	3.5 E	8.1	12	42	81	16	2.9	1.8	2.0
29	2.7	1.6		4.0 E		13	51	76	14	2.8	2.0	1.5
30	3.4	1.8	3.5 E	4.5 E		16	58	71	13	2.7	1.6	1.3
31	3.0			5.0 E		20		72		2.6	1.7	
Mean	1.8	4.3	3.9	3.1	8.8	11.4	49.4	83.8	57.0	5.9	1.6	1.3
Max. Mean	3.4	10	6.2	5.0 E	20 E	22	78	125	94	12	2.5	3.2
Min. Mean	1.0	1.2	3.5 E	2.8 E	3.0 E	7.1	24	48	13	2.6	0.9	0.9
Ac-Ft.	112	257	242	186	487	698	2941	5155	3390	360	96	78

E - Estimated NR - No Record

Total Discharge in Acre-Feet 14000

* Discharge measurement made on this day.

TABLE 368

DAILY MEAN DISCHARGE
TROUT CREEK NEAR TAHOE VALLEY

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	9.1	13 E		13	15	17	26	34	12	6.4	5.3
2	5.8	9.2			14	15	20	23	33	12	6.1	5.4
3	6.1	9.5			14	15	25 E	23	29	13	6.1	5.8
4	5.8	9.3			13 E	15	28 E	23	27	14	6.4	5.0
5	6.0	11			13 E	14	25	22	29	12	6.2	5.3
6	6.8	12			13		25	22	28	9.2	6.3	5.5
7	7.1	12		10 E	13	13 E	25		28	9.6*	6.5	5.3
8	6.8	11			13		22	22	29	9.4	7.1	5.2*
9	7.1	11	11 E		15	17 *	23	23	30	9.6	6.3	5.4
10	7.9	11			21	14	22 *	25	31	9.0	5.9*	5.3
11	7.3	12			21	14	22	23	31	6.6	6.7	5.0
12	7.6	11		12 *E	18 E	14	25	22	31	5.9	6.8	5.1
13	7.3				17 E	14	22	21	31	8.8	8.3	4.7
14	7.7				16 E	15	22	22	33	8.5	6.8	5.1
15	7.9	12 E			15	15	22	24	29	7.1	6.2	4.9
16	8.5		14 *E		16 *E		25	24	28	7.1	6.1	6.5
17	9.2		12				27	24	27	7.0	6.5	7.2
18	9.1	13 *	12			14 E	25	27	27	6.8	6.1	7.1
19	9.2	13 E		12 E	13 E		23	26	25	6.1	5.8	6.4
20	8.9*	13 E				15	22	28	24	6.1	6.5	6.2
21	8.6	13				16	21	29	23	6.0*	6.5	6.0
22	9.1	12 E			15	17		29	21	5.8	6.3	6.0
23	8.9	12 E			14 E	18	18 E	30	20	5.8	6.3	6.2
24	8.9	12			14 E	17		29	18	6.3	6.0*	7.1
25	8.7	13	11 E		14	16	21	30 *	17	6.1	5.6*	6.4 E
26	9.2			12	14	15	22 *	30	16	6.4	5.7	6.1*E
27	9.0			12	14	15	23	27	15	6.2	5.8	6.3
28	9.1	11 E		12 E	14 E	15 E	24	27	14	6.0	7.0	7.3
29	8.7			12		15 E	25	28	13	6.2	7.1	8.2
30	9.0	12		12		15	26	24	13	6.1	6.0	7.5
31	9.3			13		16		29		6.5	5.5	
Mean	8.0	11.5	11.2	11.3	14.6	14.9	22.8	25.5	25.1	8.0	6.4	6.0
Max. Mean	9.3	13 E	14 E	13 E	21 E	18 E	28 E	30	34	14	8.3	8.2
Min. Mean	5.8	9.1	11 E	10 E	13 E	13 E	17 E	21	13	5.8	5.5	4.7
Ac.-Ft.	489	684	690	696	811	916	1355	1567	1496	490	391	355

E - Estimated NR - No Record

Total Discharge in Acre-Feet 9940

* Discharge measurement made on this day.

TABLE 369

DAILY MEAN DISCHARGE
UPPER TRUCKEE RIVER NEAR MEYERS

In second-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	3.7	7.0		5.2	9.7	28	88	71	17	5.0	3.8
2	3.4	3.9	7.4	4.5 E	6.4	11	44	77	89	16	4.8	3.2
3	3.2	4.0	5.9		6.1	11	77	88	105	18	4.8	3.0
4	3.0	4.4	5.4	4.5	5.6	11	94	82	117	27	4.4	3.0
5	2.9	4.5	5.3	4.0 E	5.5	10	79	65	118	18	4.2	3.0
6	3.7	4.7	5.0	4.2	5.4		70	60	121	16	4.2	2.8
7	3.8	4.6	5.1	4.6	5.3	10 E	70	61	114	16 *	4.5	2.7
8	3.1	4.4	5.2	4.5	5.2		61	75	105	15	4.8	2.7*
9	3.2	4.2	5.2	4.4	7.9	10 *	67 *	103	92	15	4.3	2.7
10	3.7	4.3	5.3	4.5	22	10	62 *	129	91	14	4.0*	2.7
11	3.7	4.7	5.1	4.5 E	21	9.7	71	91	84	13	4.3	2.7
12	3.7	5.6	5.4	4.7*	16	9.5	82	70	75	13	4.8	2.5
13	3.5	4.5	5.4	4.9	14	9.9	60	65	74	14	6.0	2.5
14	3.3	4.2	5.3	5.1	12 E	11	58	87	72	12	4.9	2.5
15	3.4	4.3	5.3	4.9 E	11	12	70	109	66	11	4.2	2.5
16	3.3	4.4	5.4*	4.8	10 *E	12	105	122	61	11	4.0	4.6
17	3.6	4.4	6.1		9.4 E	11 E	129	138	57	10	3.7	8.1
18	3.6	5.8*	5.9		9.1	10 E	112	158 E	53	9.6	3.8	5.2
19	3.2	4.7	5.7		9.1 E	11	76	160	49	9.2	4.1	4.2
20	3.3*	4.4	5.6	4.8 E	9.1 E	13	62	207 E	46	8.4	4.4	3.7
21	3.4	4.7	5.6		9.1	14	55	213	41	7.9*	4.1	3.5
22	3.1	4.4	5.7		10	18	48	206	37	7.6	3.7	3.5
23	3.2	4.6	5.6	4.8	10 E	27		199	35	7.4	3.4	3.5
24	3.3	4.8	5.3	4.7	9.9	23	43 E	227 *	32	7.3	3.4	3.2
25	3.3	5.5	6.0 E	4.7	11	18 E		235	28	6.7	3.4*	3.3
26	3.5	5.1	5.6 E	5.0	10	17	43 *	160	26	6.4	3.3	3.3
27	3.6	4.8	5.1 E	5.0	9.6	17	50	121	24	6.1	4.1	3.2*
28	3.6	4.7	5.0 E	4.6	9.7	16	63	117	21	5.7	4.1	4.6
29	3.4	4.7	5.0 E	4.9		15	78	94	19	5.5	4.1	4.5
30	3.5	4.7	5.1	5.0		17	80	84	18	5.4	4.4	3.7
31	3.8		4.8	5.3		21		77		5.0	4.5	
Mean	3.4	4.6	5.5	4.7	9.8	13.4	67.4	122	64.7	11.4	4.2	3.5
Max. Mean	3.8	5.8	7.4	7.0	22	27	129	235	121	27	6.0	8.1
Min. Mean	2.9	3.7	4.8	4.0 E	5.2	9.5	28	60	18	5.0	3.3	2.5
Ac.-Ft.	209	273	339	289	545	823	4013	7474	3850	703	261	207

E - Estimated NR - No Record

Total Discharge in Acre-Feet 18990

* Discharge measurement made on this day.

TABLE 370

DAILY MEAN GAGE HEIGHT*
EAGLE LAKE NEAR SUSANVILLE

In feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.70	3.45	3.60	3.70	3.80	4.00	4.05	3.95	3.80	3.35	2.80	2.50
2	3.70	3.45	3.70	3.70 E	3.85	4.00	4.05	3.95	3.75	3.35	2.80	2.50
3	3.70	3.50	3.70	3.70 E	3.85	4.00	4.05	3.95	3.75	3.30	2.75	2.45
4	3.65	3.45	3.70	3.70 E	3.85	4.00	4.05	3.95	3.80	3.30	2.75	2.45
5	3.65	3.45	3.70	3.70 E	3.85	3.95	4.05	3.90	3.75	3.25	2.75	2.45
6	3.60	3.45	3.70	3.70 E	3.85	4.00	4.05	3.90	3.75	3.25	2.75	2.40
7	3.65	3.45	3.70	3.70 E	3.85	4.00	4.05	3.90	3.75	3.25	2.75	2.45
8	3.65	3.45	3.70	3.70 E	3.85	3.95	4.00	3.90	3.70	3.20	2.80	2.40
9	3.65 E	3.45	3.70	3.70	3.85	3.95	4.05	3.80	3.70	3.20	2.75	2.35
10	3.60 E	3.45	3.70	3.70	3.85	4.00	4.00	3.85	3.70	3.20	2.80	2.35
11	3.60 E	3.45	3.70	3.70	3.90	4.00	4.00	3.90	3.70	3.20	2.80	2.35
12	3.60 E	3.45	3.70	3.70	3.95	4.00	4.00	3.90	3.70	3.20	2.75	2.35
13	3.55 E	3.55	3.70	3.75	3.95	4.00	4.05	3.90	3.65	3.15	2.75	2.35
14	3.55 E	3.55	3.70	3.70	3.95	3.95	4.00	3.90	3.65	3.15	2.75	2.30
15	3.55 E	3.55	3.70	3.75	3.95	4.00	4.00	3.90	3.65	3.10	2.75	2.25
16	3.55 E	3.55	3.70	3.75	4.00	4.00	4.00	3.85	3.65	3.10	2.70	2.25
17	3.50 E	3.55	3.70	3.75	4.00	4.00	4.00	3.90	3.65	3.10	2.70	2.25
18	3.50	3.55	3.75	3.75	4.00	4.00	4.00	3.85	3.60	3.05	2.65	2.25
19	3.50	3.55	3.70	3.75	4.00	4.00	4.00	3.85	3.60	3.05	2.65	2.25
20	3.50	3.55	3.70	3.75	4.00	4.05	3.95	3.85	3.60	3.05	2.65	2.25
21	3.50	3.55	3.70	3.75	4.00	4.00	3.90	3.85	3.60	3.05	2.65	2.25
22	3.50	3.55	3.70	3.75	4.00	4.00	3.95	3.80	3.55	3.00	2.65	2.20
23	3.50	3.55	3.70	3.70	3.95	4.05	4.00	3.80	3.55	3.00	2.60	2.20
24	3.50	3.55	3.70	3.75	3.95	4.05	4.00	3.80	3.55	2.95	2.60	2.15
25	3.50	3.50	3.70	3.75	4.00	4.05	4.00	3.80	3.55	2.95	2.55	2.15
26	3.50	3.65	3.70	3.75	4.00	4.00	4.00	3.75	3.50	2.90	2.55	2.15
27	3.45	3.65	3.70	3.75	4.00	4.05	3.95	3.75	3.45	2.90	2.55	2.15
28	3.50	3.65	3.70	3.75	4.00	4.05	3.95	3.75	3.40	2.90	2.55	2.15
29	3.45	3.65	3.70	3.75		4.05	3.95	3.75	3.40	2.85	2.55	2.10
30	3.45	3.65	3.70	3.75		4.05	3.95	3.75	3.40	2.80	2.55	2.10
31	3.45		3.70	3.75		4.05		3.75		2.80	2.50	

E - Estimated NR - No Record

Total Discharge in Acre-Feet

* Gage heights shown are gage heights to nearest 0.05 foot.

SAN FRANCISCO BAY REGION

SAN FRANCISCO BAY REGION

Introduction

The San Francisco Bay Region covers the same portion of coastal California as does the San Francisco Bay Water Pollution Control Region 2. Stream systems in this region drain the western slopes of the coastal ranges and includes the mouth of the Sacramento River. Streamflow in this area results from surface runoff and is sustained through the summer by ground water seepage from the soil mantle.

The 1960-61 water year was the third consecutive year of subnormal runoff. In this region, it was the third driest year of record. Precipitation in the area was about 70 percent and runoff was about 15 percent of normal.

Tabular Information

On the following pages data are tabulated for two gaging stations and daily maximum and minimum tides on Suisun Bay at Benicia and Sacramento River at Collinsville for the 1961 water year.

TABLE 371

GAGING STATION DESCRIPTION
SAN FRANCISCO BAY REGION
BAY AREA BRANCH

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1960-61 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1960-61 WATER YR. IN AC-FT.	1960 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
ARROYO DE LOS COCHES NEAR MILPITAS																
37 26 38	121 51 45	NW4 6S 1E	.4E	1.84	12/1/60	3.4	1.79	2/5/60	92		OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located 200 ft. above Calaveras Road Bridge, 2.6 mi. NE of Milpitas. Tributary to Coyote Creek via Penitencia Creek. Recorder installed Sep. 16, 1959 (f)																
SACRAMENTO RIVER AT COLLINSVILLE																
38 04 25	121 51 18	SW27 3N 1E		7.4	2/11/61		9.2	4/6/58				JUN 29-DATE	1929		0.00	USED
													1929		-3.05	USCGS
Station located 0.4 mi. SW of Collinsville, 3.3 mi. NE of Pittsburg. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SUISUN BAY AT BENICIA ARSENAL																
38 02 34	122 08 00	SW6 2N 2W		4.6	12/1/60		5.7	4/6/58				JUN 29-APR 40	1929	1940	-2.21	USCGS
												APR 40-DATE	1940	1942	-5.00	USCGS
													1942		0.00	USCGS
Station located on inshore side of wharf, immediately SE of Benicia. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. Period of record intermittent from 1929-1940. (s)																
WALNUT CREEK AT PLEASANT HILL																
37 56 54	122 03 14	NE11 1N 2W	974	31.71	3/15/61	974	31.71	3/15/61			NOV 59-DATE	NOV 59-DATE	1959		0.00	CHC
Station located 0.5 mi. below State Highway 24 Bridge. Tributary to Suisun Bay via Pacheco Creek. Recorder installed November 5, 1959.																

TABLE 372

GAGING STATION
ADDITIONS and DISCONTINUATIONS

SAN FRANCISCO BAY REGION

ADDITIONAL STATIONS
None

DISCONTINUED STATIONS
None

PUBLICATION DISCONTINUED
None

TABLE 373

DAILY MEAN DISCHARGE
ARROYO DE LOS COCHES NEAR MILPITAS

In second feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.4 E	0	0.1	0.1	0.1	0.1	0.1			
2		0	0.3	0	0.1	0.1	0.1	0.1	0			
3		0	0.1	0	0.1	0.1	0.1	0.1	0			
4		0	0	0	0.1	0.1	0.1	0.1	0			
5		0	0	0	0.1	0.1	0.1	0.1	0			
6		0	0	0	0.1	0.1	0.1	0.1	0			
7		0	0	0	0.1	0.1	0.1	0.1	0			
8		0	0	0	0.1	0.1	0.1	0.1	0			
9		0	0	0	0.1	0.1	0.1	0	0			
10		0	0	0	0.1	0.1	0.1	0.1	0			
11		0	0	0	0.1	0.1	0.1	0.1	0			
12	N	0	0	0	0.1	0.1	0.1	0.1	0	N	N	N
13	O	0	0	0	0.1	0.1	0.1	0.1	0	O	O	O
14		0	0	0	0.1	0.1	0.1	0.1	0			
15		0	0	0	0.1	0.2	0	0	0			
16	F	0	0	0	0.1	0.1	0	0	0	F	F	F
17	L	0	0	0	0.1	0.2	0	0	0	L	L	L
18	O	0	0	0.1	0.1	0.1	0	0.1	0	O	O	O
19	W	0	0	0	0.1	0.1	0	0.1	0	W	W	W
20		0	0	0.1	0.1	0.1	0.1	0.1	0			
21		0	0	0.1	0.1	0.1	0.1	0.1	0			
22		0	0	0	0.1	0.1	0.1	0.1	0			
23		0	0	0.1	0.1	0.1	0.1	0.1	0			
24		0	0	0.1	0.1	0.1	0.1	0.1	0			
25		0	0	0.1	0.1	0.1	0.1	0.1	0			
26		0.1	0	0.1	0.1	0.1	0.1	0.1	0			
27		0	0	0.1	0.1	0.1	0.1	0.1	0			
28		0	0	0.1	0.1	0.1	0.1	0	0			
29		0	0	0.2		0.1	0.1	0	0			
30		0	0	0.1		0.1	0.1	0	0			
31			0	0.1		0.1		0.1				
Mean	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0	0
Max. Mean	0	0.1	0.4 E	0.2	0.1	0.2	0.1	0.1	0.1	0	0	0
Min. Mean	0	0	0	0	0.1	0.1	0	0	0	0	0	0
Ac.-Ft.	0	0	2	3	6	7	5	5	0	0	0	0

E = Estimated NR = No Record

Total Discharge in Acre-Feet 28

TABLE 374

DAILY MEAN DISCHARGE
WALNUT CREEK AT PLEASANT HILL

In second feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8 E	0.7	66	4.5	18	3.2	6.6	1.6	55	2.6 E	4.1 E	2.6 E
2	2.8 E	0.7	28	3.9	9.3	3.0	5.6	0.4	4.4	1.5 E	2.4 E	2.6 E
3	3.1 E	21	15	3.9	10	3.4	11	0.6	2.3	2.8 E	4.0 E	1.0 E
4	1.7 E	6.0	8.3	4.5	6.5	6.7	7.6	0.5	2.4	1.5 E	2.4 E	0.9 E
5	5.2 E	5.6	6.8	4.3	5.4	4.2	4.1	1.3	2.5	2.2 E	3.6 E	1.2 E
6	5.5 E	18	5.2	4.4	7.3	6.8	4.8	0.5	6.7	1.9 E	2.8 E	2.8 E
7	3.6 E	70	4.9	4.3	7.8	3.8	9.0	0.8	1.9	2.2 E	1.5 E	1.2 E
8	1.9	30	4.8	5.1	20	4.2	4.8	0.6	4.8	2.6 E	1.2 E	1.4 E
9	1.8	14	3.9	5.2	16	22	5.3	0.9	1.1	2.6 E	3.3 E	2.2 E
10	5.2	10	4.1	3.0	11	5.5	5.2	0.9	1.5	1.0 E	1.9 E	1.0 E
11	2.0	4.8	4.6	5.4	37	11	67	1.8	1.7	1.4 E	1.7 E	1.0 E
12	2.2	14	3.6	2.4	8.5	10	16	1.8	0.9	1.0 E	4.0 E	1.2 E
13	4.5	146	3.4	1.9	7.2	9.0	7.3	0.9	2.2	1.5 E	3.4 E	1.5 E
14	3.0	12	4.0	3.3	6.3	214 E	6.7	0.7	1.0	3.6 E	2.2 E	2.1 E
15	2.0	5.6	3.3	2.4	8.4	974 E	6.2	0.9	0.5	2.2 E	1.4 E	1.4 E
16	3.5	9.2	3.5	2.4	6.7	28	5.9	1.6	1.7 E	2.4 E	3.3 E	4.6 E
17	3.0	5.5	3.6	2.9	5.5	88	16	2.2	2.6 E	1.4 E	2.8 E	16 E
18	2.3	4.5	6.1	2.4	5.4	20	12	1.4	1.2 E	2.2 E	1.0 E	18.9 E
19	3.1	4.4	4.0	2.7	7.8	15	2.9	15	3.3 E	2.8 E	2.8 E	1.4 E
20	2.8	6.8	3.7	3.0	7.1	15	0.7	4.3	1.7 E	2.1 E	2.4 E	2.1 E
21	3.6	7.3	3.3	2.4	4.2	11	11	1.4	1.9 E	2.4 E	1.0 E	1.2 E
22	3.7	4.6	3.5	2.3	4.2	11	60	1.8	1.4 E	2.8 E	3.3 E	1.2 E
23	2.8	2.7	3.3	5.8	4.3	12	27	1.1	2.4 E	1.5 E	1.2 E	1.4 E
24	10	2.7	3.7	3.0	4.1	21	19	1.6	1.5 E	2.4 E	2.6 E	0.9 E
25	2.7	128	3.3	112	5.2	14	6.3	1.0	2.2 E	2.6 E	2.6 E	1.2 E
26	2.6	946 E	3.3	839 E	3.7	7.7	1.6	3.6	2.8 E	2.2 E	0.9 E	1.5 E
27	1.4	11	3.2	17	3.6	6.4	1.0	2.4	2.4 E	2.2 E	2.4 E	0.9 E
28	1.4	6.8	3.3	7.2	5.0	9.0	0.8	6.0	1.5 E	3.6 E	1.9 E	0.9 E
29	1.2	5.6	3.6	24		7.2	1.2	16	1.4 E	1.2 E	1.9 E	2.2 E
30	1.4	7.4	3.6	23		5.6	0.8	1.8	1.2 E	1.9 E	2.1 E	1.2 E
31	1.0		3.8	33		5.9		4.7		1.9 E	1.5 E	
Mean	3.1	50.4	7.2	36.8	8.8	50.2	11.1	2.6	3.9	2.1	2.4	2.7
Max. Mean	10	946	66	839 E	37	974 E	67	16	55	3.6	4.1	18.9
Min. Mean	1.0	0.7	3.2	1.9	3.6	3.0	0.7	0.4	0.5	1.0	0.9	0.9
Ac.-Ft.	188	2997	446	2262	487	3089	661	159	234	131	146	158

E = Estimated NR = No Record

Total Discharge in Acre-Feet 10,958

TABLE 375

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT COLLINSVILLE

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec	Jan.	Feb.	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.1 2.2	7.5 3.0	6.6 1.9	6.4 2.1	6.0 2.1	5.8 2.2	6.1 1.7	6.9 1.9	17	6.2 1.9	6.9 1.8	6.5 1.5	6.5 2.4	6.4 2.3	6.5 2.1	6.5 1.8	6.4 2.3
2	6.3 2.3	6.9 2.3	6.2 1.7	6.4 2.3	6.2 2.5	5.9 2.0	6.1 1.5	6.7 1.8	18	6.4 1.7	7.0 1.8	6.4 1.6	6.2 2.4	6.2 2.3	6.6 2.1	6.3 1.9	5.9 2.0
3	6.2 1.9	6.7 2.1	6.1 1.7	6.0 2.2	6.0 2.3	6.0 1.9	6.3 1.6	6.5 1.9	19	6.4 1.6	6.8 1.6	6.0 1.7	6.2 2.3	6.3 2.2	6.2 1.8	6.3 2.0	5.5 1.9
4	6.2 1.9	6.5 1.8	5.9 1.7	5.6 2.2	5.9 2.4	6.2 1.9	6.1 1.4	6.2 1.9	20	6.5 1.7	6.6 1.6	5.8 1.6	6.2 2.4	6.2 2.1	5.8 1.7	5.6 1.6	5.7 2.0
5	6.2 2.0	6.2 1.7	5.7 1.7	5.7 2.2	6.1 2.8	6.4 2.0	6.0 1.4	6.0 1.9	21	6.5 1.6	6.4 1.6	5.8 1.8	6.2 2.5	6.1 2.1	5.7 1.8	5.5 1.7	6.2 2.3
6	6.3 2.1	5.5 1.5	5.2 1.7	6.1 2.4	6.2 2.6	6.7 2.4	5.9 1.5	6.1 2.0	22	6.3 1.7	6.0 1.6	6.1 2.1	6.1 2.4	6.0 2.1	5.3 1.8	5.6 1.9	6.3 2.8
7	6.1 2.1	6.0 1.5	5.3 1.5	6.1 2.7	5.9 2.2	6.5 1.9	5.4 1.3E	6.3 2.2	23	6.1 1.5	5.6 1.7	6.1 2.3	5.8 2.0	5.9 2.2	5.2 1.7	5.6 1.9	6.2 2.7
8	5.8 2.0	5.8 1.9	5.4 1.9	6.1 2.6	5.9 2.2	6.0 1.7	5.4 1.4	6.4 2.6	24	6.0 1.7	5.8 1.8	6.2 2.4	5.8 2.0	5.8 2.6	5.3 1.6	5.8 2.1	6.5 2.4
9	5.5 1.9	5.6 2.0	5.7 2.1	6.3 2.3	6.0 2.0	6.0 2.0	5.8 1.8	6.4 2.3	25	6.2 2.1	6.0 2.0	6.3 2.3	6.1 2.0	5.8 2.2	5.4 1.9	6.0 2.5	6.9 2.4
10	5.1 1.8	5.7 1.9	5.8 2.2	6.6 2.4	6.0 1.9	6.1 1.9	5.8 2.0	6.5 2.1	26	6.4 2.3	5.9 2.1	6.8 2.6	6.1 1.9	5.7 2.2	5.5 2.0	5.9 2.3	7.0 2.6
11	5.4 1.9	5.6 1.9	5.9 2.2	7.4 2.6	6.2 1.8	6.0 2.1	5.9 2.1	6.6 2.1	27	6.1 2.4	6.3 2.3	6.6 2.2	6.0 1.8	5.8 2.1	5.5 2.0	6.1 2.0	7.1 2.2
12	6.0 2.1	5.8 2.1	6.2 2.1	7.0 2.2	6.2 1.7	6.3 2.5	5.9 1.8	6.7 2.0	28	5.9 2.2	6.3 2.1	6.4 2.1	6.0 1.8	5.4 1.7	5.6 2.0	6.4 2.1	7.1 2.0
13	6.1 2.6	5.9 2.2	6.3 1.8	7.1 2.1	6.3 1.8	6.2 2.2	5.9 1.6	6.6 1.9	29	6.3 2.4	6.5 2.0	6.7 2.3		5.8 2.2	5.8 2.0	6.6 2.0	6.8 1.6
14	5.9 2.5	6.2 2.2	6.4 1.7	7.1 2.2	6.7 2.4	6.2 2.2	6.1 1.6	6.5 1.8	30	6.8 2.6	6.5 2.0	6.7 2.4		6.0 2.3	5.9 1.7	6.6 1.7	6.6 1.5
15	5.7 2.1	6.6 2.2	6.5 1.5	7.2 2.4	6.8 2.4	6.3 2.0	6.2 1.6	6.6 1.9	31		6.6 1.9	6.9 2.4		5.9 2.3		6.8 1.8	
16	5.9 2.0	6.7 1.9	6.6 1.5	6.8 2.3	6.4 2.3	6.4 2.1	6.4 1.7	6.5 2.1									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record
E - Estimated

NOTE : Single daily values indicate daily mean stage only.

TABLE 376

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SUISUN BAY AT BENICIA ARSENAL

In feet

Date	1960		1961						Date	1960		1961					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.3 -1.9	4.6 -1.3	3.7 -2.4E	3.4 -2.3E	3.1 -2.3E	2.8 -2.2E	3.2 -2.3E	4.0 -2.5E	17	3.3 -2.5E	4.1 -2.5E	3.8 -2.7E	3.5 -2.2E	3.6 -2.1E	3.5 -2.2E	3.3 -2.5E	3.2 -2.0
2	3.5 -2.0	4.0 -2.1E	3.4 -2.6E	3.3 -2.1E	3.1 -1.9	2.9 -2.2E	3.2 -2.5E	3.7 -2.6E	18	3.5 -2.7E	4.2 -2.6E	3.7 -2.7E	3.2 -2.2E	3.2 -2.1E	3.5 -2.2E	3.1 -2.5E	2.6 -2.2E
3	3.7 -2.3E	3.7 -2.4E	3.2 -2.5E	2.9 -2.3E	3.0 -1.9	3.0 -2.2E	3.2 -2.5E	3.4 -2.4E	19	3.6 -2.8E	3.9 -2.7E	3.3 -2.6E	3.2 -1.7	3.3 -2.1E	3.1 -2.2E	3.0 -2.3E	2.5 -2.0
4	3.4 -2.3E	3.5 -2.6E	3.0 -2.5E	2.5 -2.2E	3.0 -1.8	3.2 -2.3E	3.0 -2.5E	3.0 -2.5E	20	3.7 -2.7E	3.7 -2.8E	3.0 -2.4E	3.2 -1.8	3.2 -2.2E	2.7 -2.3E	2.4 -2.5E	2.8 -1.7
5	3.4 -2.3E	3.3 -2.7E	2.7 -2.5E	2.6 -1.8	3.2 -1.3	3.4 -2.2E	2.8 -2.7E	2.8 -2.3E	21	3.6 -2.7E	3.5 -2.6E	3.1 -2.0	3.1 -1.8	3.1 -2.2E	2.9 -2.1E	2.3 -2.4E	3.2 -1.3
6	3.4 -2.2E	2.5 -2.8E	2.3 -2.4E	2.9 -1.3	3.2 -1.5	3.6 -2.1E	2.8 -2.6E	3.0 -2.2E	22	3.3 2.9E	3.2 -2.6E	3.3 -1.5	2.9 -1.9	2.9 -2.2E	2.3 -2.0	2.5 -2.1E	3.1 -1.0
7	3.0 -2.2E	2.9 -2.3E	2.3 -2.0	3.0 -1.1	3.0 -1.8	3.3 -2.3E	2.3 -2.7E	3.2 -1.8	23	3.1 -2.9E	2.8 -2.4E	3.3 -1.5	2.7 -2.1E	2.8 -2.1E	2.1 -2.1E	2.6 -1.9	3.3 -1.1
8	2.7 -2.1	2.7 -2.0	2.6 -1.6	3.0 -1.4	2.9 -1.8	2.9 -2.3E	2.4 -2.7E	3.4 -1.5	24	3.0 -2.7E	3.1 -2.4E	3.4 -2.5	2.7 -2.3E	2.7 -1.5	2.3 -2.1E	2.8 -1.6	3.6 -1.6
9	2.4 -2.1	2.6 -1.9	2.8 -1.4	3.2 -1.9	3.0 -2.1E	2.9 -2.3E	2.8 -2.3E	3.5 -2.0	25	3.4 -2.1	3.2 -2.0	3.4 -1.7	3.0 -2.4E	2.6 -2.0	2.5 -2.1E	3.0 -1.4	3.9 -1.8
10	2.2 -2.1	2.7 -1.8	2.9 -1.4	3.5 -2.0	3.0 -2.2E	3.0 -2.3E	2.9 -2.1E	3.6 -2.2E	26	3.5 -1.7	3.1 -1.8	3.9 -1.6	3.0 -2.4E	2.6 -2.0	2.6 -2.1E	3.0 -1.4	4.1 -1.9
11	2.4 -2.0	2.6 -1.8	3.1 -1.7	4.3 -2.0	3.2 -2.3E	3.1 -2.2E	3.0 -2.0	3.6 -2.3E	27	3.2 -1.7	3.5 -1.7	3.6 -2.0	2.9 -2.4E	2.6 -2.2E	2.5 -2.0	3.4 -2.2E	4.1 -2.2E
12	3.1 -1.6	2.9 -1.5	3.3 -2.1E	4.0 -2.5E	3.2 -2.3E	3.3 -1.9	3.0 -2.4E	3.6 -2.4E	28	3.1 -1.9	3.7 -2.1E	3.5 -2.2E	3.0 -2.5E	2.4 -2.3E	2.7 -2.1E	3.6 -2.2E	4.2 -2.3E
13	3.2 -1.0	3.0 -1.6	3.5 -2.5E	4.1 -2.4E	3.4 -2.3E	3.2 -2.1E	3.1 -2.5E	3.6 -2.4E	29	3.5 -1.8	3.6 -2.2E	3.9 -1.9		2.7 -2.2E	2.8 -2.2E	3.6 -2.3E	3.9 -2.6E
14	2.9 -1.3	3.4 -1.7	3.6 -2.7E	4.1 -2.5E	3.8 -2.0	3.4 -2.2E	3.1 -2.6E	3.6 -2.4E	30	4.0 -1.6	3.7 -2.3E	3.8 -1.9		2.8 -2.1E	3.0 -2.3E	3.7 -2.5E	3.7 -2.7E
15	2.8 -2.0	3.8 -1.9	3.7 -2.8E	4.2 -2.4E	3.8 -2.1E	3.4 -2.2E	3.2 -2.6E	3.6 -2.2E	31		3.7 -2.4E	4.0 -2.0		2.8 -2.0		3.8 -2.4E	
16	3.0 -2.3E	3.9 -2.5E	3.9 -2.7E	3.9 -2.4E	3.5 -2.1E	3.5 -2.2E	3.3 -2.6E	3.4 -2.1E									

Crest Stages:	Date						
	Time						
	Stage						

NR — No Record
E - Estimated

NOTE : Single daily values indicate daily mean stage only.

CONTENTS OF RESERVOIRS

TABLE 377

DAILY CONTENT
SHASTA LAKE

In thousands of acre feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2752.4	2623.7	2727.1	3083.3	3285.7	3542.3	3606.3	3716.7	3740.8	3486.4	3009.8	2554.5
2	2745.2	2619.7	2766.3	3084.0	3314.2	3533.5	3615.5	3718.2	3741.9	3470.4	2933.7	2543.7
3	2737.2	2615.4	2798.5	3086.3	3339.6	3523.4	3625.3	3717.7	3736.6	3455.7	2978.4	2533.6
4	2734.5	2610.9	2802.9	3090.4	3357.6	3511.0	3635.9	3717.2	3732.7	3441.6	2963.1	2522.6
5	2730.7	2607.2	2812.5	3093.2	3372.3	3502.5	3644.9	3717.7	3730.3	3428.7	2946.3	2512.9
6	2727.5	2603.5	2819.0	3095.5	3384.6	3493.0	3653.2	3719.3	3727.2	3415.8	2928.0	2503.3
7	2723.3	2600.2	2824.0	3095.5	3397.1	3482.7	3661.4	3714.3	3724.3	3402.8	2911.8	2493.9
8	2718.8	2596.7	2828.3	3095.5	3411.1	3475.2	3665.1	3713.3	3720.3	3388.0	2896.7	2485.8
9	2713.8	2592.2	2832.5	3097.6	3423.2	3469.9	3668.7	3715.1	3716.1	3371.1	2881.1	2477.6
10	2709.1	2587.3	2836.4	3100.8	3433.5	3465.2	3673.6	3720.3	3708.9	3356.4	2864.6	2467.1
11	2705.1	2584.6	2838.8	3103.6	3548.4	3461.2	3678.6	3727.9	2701.2	3342.3	2849.0	2459.0
12	2701.1	2585.2	2842.7	3105.9	3573.3	3454.0	3683.5	3732.7	3696.0	3328.7	2837.5	2450.9
13	2697.1	2590.5	2846.6	3108.7	3588.4	3448.3	3687.9	3734.5	3690.8	3314.2	2813.6	2444.0
14	2692.7	2591.2	2849.2	3110.6	3599.1	3447.3	3692.1	3734.0	3684.0	3300.2	2796.9	2437.0
15	2688.2	2592.2	2855.4	3110.1	3616.6	3464.7	3694.2	3736.9	3677.8	3285.5	2781.6	2430.7
16	2683.8	2590.0	2875.5	3112.0	3628.7	3478.7	3697.1	3739.2	3669.8	3268.6	2767.4	2424.2
17	2679.6	2592.6	2918.6	3114.8	3635.1	3491.2	3700.5	3742.6	3658.6	3253.8	2753.3	2416.4
18	2675.9	2594.6	2956.1	3117.1	3636.1	3497.7	3703.6	3745.8	3646.5	3238.9	2739.0	2410.2
19	2672.5	2594.8	2984.5	3118.4	3634.8	3501.5	3703.6	3748.7	3636.1	3223.2	2723.5	2404.5
20	2668.1	2594.0	3004.6	3120.1	3630.7	3502.2	3703.6	3748.2	3624.3	3207.3	2707.6	2399.3
21	2664.2	2593.6	3019.1	3118.7	3625.1	3502.7	3705.2	3746.3	3613.5	3191.4	2692.9	2392.9
22	2660.2	2593.2	3031.0	3118.2	3618.1	3502.0	3706.2	3747.4	3602.2	3175.4	2679.6	2387.2
23	2656.6	2595.2	3039.2	3120.6	3609.9	3501.2	3708.8	3748.4	3590.4	3156.8	2665.0	2380.5
24	2653.1	2604.7	3046.0	3122.7	3601.7	3503.7	3711.2	3747.9	3576.9	3139.7	2652.7	2371.8
25	2650.8	2631.1	3051.3	3124.8	3591.2	3509.5	3714.3	3748.2	3563.4	3123.6	2638.1	2364.6
26	2646.4	2641.2	3057.7	3128.3	3577.4	3526.4	3716.1	3750.0	3550.2	3107.8	2625.1	2358.3
27	2642.1	2647.3	3063.2	3131.5	3565.4	3546.4	3718.0	3747.9	3538.0	3092.0	2610.9	2352.3
28	2639.6	2650.2	3069.7	3130.8	3552.2	3561.4	3718.8	3743.7	3525.9	3076.6	2597.7	2346.2
29	2634.2	2653.7	3074.7	3140.2		3574.6	3716.1	3742.6	3513.3	3059.8	2586.0	2339.5
30	2631.3	2662.3	3079.3	3147.4		3586.3	3714.3	3742.9	3500.0	3042.6	2575.4	2333.0
31	2627.6		3082.3	3147.1		3597.3		3741.9		3026.2	2565.2	
Monthly Change	-128.7	+34.7	+420.0	+164.8	+305.1	+45.1	+117.0	+27.6	-241.9	-473.8	-461.0	-232.2

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 378

DAILY CONTENT
MILLERTON LAKE

In thousands of acre-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	182.8	184.0	205.9	235.1	251.8	238.9	219.4	279.6	347.8	329.9	215.6	158.7
2	181.8	183.9	209.3	235.7	252.2	237.4	220.4	281.5	349.9	325.9	211.6	157.4
3	181.6	184.4	211.9	236.5	249.8	236.1	222.4	283.5	351.9	322.4	208.6	156.1
4	181.6	184.2	213.2	237.0	247.4	234.9	224.3	285.5	353.8	319.4	207.4	155.3
5	181.9	184.1	214.2	237.5	247.5	233.7	226.2	287.7	355.5	316.3	206.3	155.3
6	182.9	184.7	215.2	237.7	247.8	231.8	228.2	290.0	357.3	312.6	203.6	155.4
7	183.7	185.6	216.3	237.8	247.8	229.9	230.3	292.2	359.3	310.4	202.6	154.9
8	183.5	186.0	217.5	238.1	247.8	228.2	232.4	294.3	361.2	307.5	201.8	153.9
9	183.3	186.4	218.0	238.6	247.9	226.6	234.4	296.6	363.0	304.5	200.5	153.0
10	183.5	186.9	218.0	239.2	248.1	225.5	236.3	298.9	364.9	301.0	198.8	152.0
11	183.6	187.4	217.7	239.6	248.6	224.2	238.3	301.1	366.1	297.4	197.3	152.1
12	183.3	189.2	217.7	240.1	249.7	222.4	240.2	303.4	366.9	293.6	195.6	152.3
13	183.3	190.5	218.4	240.7	250.4	220.9	242.2	305.7	367.5	289.9	193.4	152.3
14	183.8	191.6	219.8	241.2	250.4	219.3	244.1	308.1	367.8	285.6	190.7	152.6
15	183.9	192.5	221.3	241.7	250.1	218.6	246.3	310.4	367.5	281.9	187.7	152.8
16	183.6	193.3	222.6	242.2	249.5	218.2	248.3	312.6	367.1	277.5	184.8	153.0
17	184.0	194.4	223.1	242.2	248.9	217.8	250.3	314.9	366.3	272.4	182.4	153.2
18	184.0	195.3	223.5	242.5	248.5	217.3	252.3	317.0	364.9	268.2	181.1	153.7
19	184.3	196.0	224.4	242.9	247.6	216.8	254.4	319.4	362.6	264.0	178.9	154.4
20	184.9	196.6	225.6	242.9	248.0	216.1	256.4	321.6	360.1	260.4	176.8	154.9
21	185.0	197.5	226.7	243.3	248.5	215.9	258.5	324.0	357.2	256.6	175.5	155.6
22	184.9	198.3	227.1	243.6	248.2	215.6	260.4	326.3	354.5	252.1	174.5	156.1
23	184.4	199.1	227.9	244.0	247.5	215.7	262.6	328.5	351.9	247.7	172.9	156.8
24	184.6	199.8	228.7	244.7	246.8	217.0	264.7	330.7	350.2	244.1	171.7	157.3
25	184.8	200.5	229.6	245.1	245.4	217.2	266.6	332.9	348.1	240.7	170.9	158.2
26	185.1	201.7	230.9	246.8	244.2	217.2	268.5	335.1	345.9	236.5	168.8	158.2
27	185.3	202.6	231.1	248.3	242.9	217.6	270.5	337.4	343.4	233.1	166.8	158.2
28	185.1	203.5	231.9	249.1	241.3	217.9	272.9	339.6	340.5	229.4	165.1	158.8
29	185.1	204.2	232.8	249.4		218.1	275.3	341.7	337.6	225.8	163.6	159.2
30	184.3	204.9	233.7	249.9		218.3	277.5	343.7	334.0	222.8	162.1	159.2
31	183.8		234.5	251.0		218.7		345.7		219.5	159.7	
Monthly Change	+1.1	+21.1	+29.6	+16.5	-9.7	-22.6	+58.8	+68.2	-11.7	-114.5	-59.8	-0.5
Max Mean												
Min. Mean												
Ac.-Ft.												

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 379

DAILY CONTENT
FOLSOM LAKE

In thousands of acre-feet

Date	1960			1961								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	517.5	501.3	490.4	428.7	343.6	417.9	535.0	707.9	899.5	864.9	635.2	443.6
2	516.5	499.9	495.2	424.9	346.4	419.0	541.5	714.1	903.6	859.1	628.1	440.8
3	515.6	498.7	497.0	421.0	350.1	420.6	551.5	719.6	907.3	852.9	621.6	438.6
4	514.7	497.4	497.3	417.2	352.9	422.3	563.2	725.6	910.2	847.2	614.7	435.6
5	513.9	496.2	496.9	413.4	354.3	423.7	573.8	731.0	913.0	841.6	607.8	432.4
6	513.2	495.0	496.0	409.5	355.0	425.5	582.0	735.4	916.5	836.4	600.5	430.5
7	512.5	494.0	495.1	405.8	355.5	427.2	589.6	739.8	919.7	831.1	592.2	428.6
8	512.0	492.9	494.1	402.1	355.7	428.8	595.9	743.5	922.7	825.1	584.7	426.8
9	511.4	491.8	493.0	398.4	356.8	430.8	601.6	749.0	925.0	818.5	577.5	425.1
10	510.6	490.5	492.0	394.7	366.4	432.9	607.0	757.2	926.5	811.8	569.9	423.3
11	509.9	489.9	490.2	390.8	376.0	434.6	611.8	766.4	927.4	805.1	562.6	421.3
12	509.3	489.5	488.0	387.1	384.6	436.5	617.9	773.5	927.8	798.8	555.3	419.3
13	508.7	490.2	486.0	383.4	389.4	438.2	623.9	780.6	928.8	791.2	547.7	417.4
14	508.1	491.1	483.3	379.6	392.6	440.3	628.6	786.9	929.9	783.5	539.7	415.8
15	507.2	491.1	480.9	375.9	395.4	446.0	633.1	794.1	930.1	775.3	531.8	414.1
16	506.5	490.7	478.4	372.0	398.5	451.5	638.4	801.3	930.0	766.8	526.2	412.5
17	505.8	489.9	475.9	367.9	400.7	457.1	645.2	808.8	929.6	758.1	520.7	410.8
18	505.4	489.9	473.9	363.8	403.0	462.0	652.2	816.3	928.5	749.7	515.4	409.0
19	505.1	490.3	472.0	359.6	405.0	465.8	657.2	824.2	927.4	742.0	509.9	407.3
20	504.8	490.3	470.5	355.3	406.6	469.9	660.8	831.8	925.5	733.3	504.5	405.8
21	504.5	489.8	467.5	353.1	408.1	475.2	663.9	838.9	922.9	724.1	498.8	404.2
22	504.3	489.1	464.4	351.1	409.7	480.3	667.8	845.7	917.7	715.7	493.3	402.6
23	504.0	488.3	461.0	348.8	411.3	486.8	671.6	853.2	911.7	706.6	488.0	401.0
24	503.6	487.6	457.6	346.9	412.6	494.0	675.0	859.9	906.0	697.0	482.6	399.4
25	503.4	488.0	454.1	345.0	413.8	501.6	677.8	867.0	900.1	687.6	477.1	397.5
26	503.2	490.1	450.5	343.5	414.8	507.2	680.7	873.5	894.1	679.7	471.8	395.6
27	502.9	491.2	446.9	341.9	415.9	512.9	684.6	879.3	888.2	672.4	466.4	393.8
28	502.7	491.2	443.2	340.3	416.8	517.9	689.6	884.1	882.2	664.6	460.7	392.2
29	502.6	490.9	439.6	339.3		521.9	695.7	888.2	876.4	657.2	456.0	390.6
30	502.4	490.4	435.9	338.0		525.8	701.4	892.1	870.7	649.9	451.6	389.0
31	502.2		432.3	339.3		530.1		895.8		642.3	447.1	
Monthly Change	-16.2	-11.8	-58.1	-93.0	+77.5	+113.3	+171.3	+194.4	-25.1	-228.4	-195.2	-58.1

E - Estimated NR - No Record

TABLE 380

DAILY CONTENT
LAKE BERRYESSA

In thousands of acre-feet

Date	1960			1961								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1029.3	1018.4	1029.3	1042.3	1079.5	1108.1	1133.6	1129.5	1105.6	1074.6	1039.5	1009.9
2	1029.0	1018.0	1033.3	1042.1	1082.5	1108.4	1133.8	1128.7	1104.8	1073.3	1038.4	1008.0
3	1028.7	1018.0	1035.2	1042.1	1084.6	1108.6	1133.8	1128.3	1104.0	1072.4	1037.5	1007.5
4	1028.0	1017.8	1035.5	1042.0	1085.7	1108.3	1134.0	1127.5	1103.3	1071.2	1036.5	1006.7
5	1027.7	1018.0	1035.8	1042.0	1086.6	1108.8	1133.8	1126.8	1102.7	1070.1	1035.5	1006.1
6	1027.5	1018.1	1035.2	1041.8	1087.4	1108.9	1133.5	1126.0	1101.8	1069.1	1034.6	1005.3
7	1027.1	1018.0	1034.7	1041.8	1087.4	1108.8	1133.5	1125.3	1100.8	1068.0	1033.5	1004.5
8	1026.6	1017.8	1034.9	1042.1	1088.0	1109.6	1133.2	1124.8	1100.3	1067.0	1032.3	1003.5
9	1025.1	1017.7	1034.9	1042.6	1089.5	1110.1	1133.0	1124.2	1098.9	1065.9	1031.5	1002.6
10	1025.0	1017.5	1035.4	1042.4	1090.2	1110.4	1132.7	1123.5	1098.2	1064.9	1030.4	1001.8
11	1024.7	1017.7	1035.7	1042.6	1095.6	1111.1	1132.2	1122.7	1097.2	1064.1	1029.5	1001.2
12	1024.2	1017.5	1035.7	1042.6	1098.0	1111.2	1132.0	1122.2	1096.6	1062.8	1028.3	1000.5
13	1024.2	1018.9	1035.7	1042.6	1099.4	1111.1	1132.0	1121.3	1095.6	1061.6	1027.4	999.8
14	1023.9	1018.8	1035.5	1042.6	1100.8	1112.4	1131.8	1120.5	1094.9	1060.5	1026.1	998.8
15	1022.9	1018.8	1036.2	1042.6	1102.7	1117.0	1131.5	1119.8	1093.8	1059.4	1025.1	998.2
16	1022.6	1018.4	1037.0	1042.4	1103.8	1118.9	1131.2	1119.4	1092.8	1058.2	1024.2	997.7
17	1022.4	1018.1	1038.7	1042.3	1104.6	1122.8	1130.8	1118.5	1091.6	1057.3	1022.9	996.9
18	1022.3	1018.1	1039.7	1042.3	1105.3	1124.8	1130.3	1117.7	1090.5	1056.0	1022.0	996.5
19	1021.5	1017.5	1040.7	1042.1	1106.0	1125.8	1130.0	1116.9	1089.4	1054.7	1021.3	995.7
20	1021.3	1017.7	1040.7	1042.1	1106.3	1127.0	1129.8	1115.9	1088.4	1053.5	1020.4	995.5
21	1021.2	1017.2	1040.8	1042.0	1106.8	1127.8	1130.2	1115.4	1087.4	1052.3	1019.6	994.6
22	1020.8	1017.3	1041.5	1041.8	1107.1	1128.5	1130.7	1114.2	1086.1	1050.8	1018.6	994.2
23	1020.5	1017.3	1041.6	1042.1	1107.3	1129.0	1131.2	1113.4	1084.8	1049.4	1017.7	993.6
24	1020.2	1016.7	1042.1	1042.1	1107.4	1129.8	1131.2	1112.6	1083.3	1048.4	1016.9	993.1
25	1020.4	1018.4	1042.1	1043.9	1107.9	1130.2	1130.8	1111.6	1082.6	1046.9	1016.1	992.7
26	1019.9	1019.9	1042.1	1048.4	1107.9	1130.8	1130.5	1110.9	1081.2	1045.8	1015.0	992.0
27	1019.6	1019.7	1042.4	1049.5	1107.9	1131.8	1130.3	1109.6	1080.0	1044.7	1014.5	991.9
28	1019.2	1019.9	1042.0	1050.2	1107.9	1132.2	1130.3	1108.6	1078.6	1043.6	1013.5	991.3
29	1018.9	1019.9	1041.8	1056.0		1132.8	1130.0	1107.6	1077.3	1042.3	1012.7	990.5
30	1018.8	1019.7	1042.0	1060.8		1133.2	1129.7	1106.6	1076.0	1041.0	1011.8	990.3
31	1018.6		1042.1	1075.8				1106.1		1040.0	1011.0	
Monthly Change	-11.5	+1.1	+22.4	+33.7	+32.1	+25.3	-3.5	-23.6	-30.1	+36.0	-29.0	-20.7

E - Estimated NR - No Record

TABLE 381

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES

Measurement of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Location	Date	Measurements Gage Height (ft.)	Discharge (cfs)
		Northern Branch		
Antelope Creek	at Highway 99E Bridge	1-13-61	1.72	3.01
Deer Creek	at Highway 99E Bridge	1-13-61	2.81	118
Thomea Creek	at Highway 99W Bridge	4-17-61	2.81	229
Pine Creek	at Highway 32	10-24-60	2.25	(Est.)10.0
Sacramento River	at Middle Stake Fish Weir	12-29-60	1.32	3,982
		5-8-61	2.68	7,517
	above Elder Creek	12-29-60	4.64	5,074
		5-8-61	6.29	9,275
Bear Creek	at Ball'a Ferry Road Bridge	10-19-60	3.21	4.85
	near Parkville School	2-17-61	4.10	303
South Fork Pit River Diversion	near Jesa Valley	11-22-60	1.81	8.88
		2-20-61	2.32	26.7
		3-15-61	1.44	3.00
		3-30-61	2.29	26.0
Pit River	near Pittville	10-18-60	2.62	42.0
		11-15-60	3.10	125
		12-20-60	4.09	475
		1-19-61	3.17	138
		2-16-61	5.38	1,377
		3-28-61	4.88	1,006
		4-17-61	2.73	55.9
		5-17-61	2.61	28.1
		7-24-61	2.22	3.58
Sacramento River	at Ball's Ferry	10-20-60	2.36	5,265
		11-29-60	2.07	4,584
		12-27-60	1.85	4,296
		3-6-61	5.03	13,741
	near Redding	10-21-60	42.82	5,269
		11-29-60	42.29	4,054
		12-27-60	42.00	3,317
		3-6-61	45.13	12,306
		Delta Branch		
Bear River (a)	near Colfax NW¼, Sec. 27, T15N, R9E	10-19-60	4.75	19.8
		12-15-60	5.18	57.8
		1-11-61	4.48	6.07
		2-17-61	4.59	3.84
		3-2-61	4.55	4.08
Walthall Slough (b)	NW¼, Sec. 14, T2S, R6E	10-28-60	2.74	17.4
		11-25-60	2.71	10.6
		12-22-60	2.32	2.35
		1-20-61	2.51	4.48
		2-16-61	2.67	9.56
		3-17-61	2.65	12.1
		4-14-61	2.72	15.3
		5-12-61	3.08	12.2
		6-9-61	2.89	21.3
		7-7-61	3.04	15.7
		8-2-61	2.97	15.3
		8-28-61	3.06	12.1
		San Joaquin Valley Branch		
Chowchilla River	near Raymond	1-26-61	568.97	25.8
		1-27-61	569.80	75.0
		2-24-61	568.60	13.7
		3-23-61	568.82	18.1
		4-25-61	568.78	16.3
		5-24-61	568.22	5.2

(a) Recorder installation.

(b) Measurement of Walthall Slough flow to Weatherbee Lake. This includes the flow of South San Joaquin Irrigation District Drain 11 near Manteca, and gage heights shown are at that recorder station.

PLATES

Plate 1

SURFACE WATER MEASUREMENT STATIONS

NORTH COASTAL REGION

1 Little Shasta River near Montague
2 Shasta River near Weed
3 Shasta River near Edgewood
4 Etna Creek near Etna
5 Moffett Creek near Fort Jones
6 Browns Creek near Douglas City
7 Weaver Creek near Douglas City
8 North Fork Trinity River at Helena
9 Big Creek near Hayfork

CENTRAL VALLEY REGION

1 Willow Creek near Willow Ranch
1A Lassen Creek near Willow Ranch
2 North Fork Davis Creek near Davis Creek
3 Big Sage Reservoir near Alturas
4 Pit River below Alturas
5 Pine Creek near Alturas
6 South Fork Pit River near Jess Valley
7 West Valley Reservoir near Likely
8 Turner Creek near Canby
9 Rush Creek near Adin
10 Ash Creek at Adin
11 Butte Creek near Adin
12 Willow Creek near Adin
13 Fall River near Dana
14 Sacramento River near Mount Shasta
15 Horse Creek at Little Valley
16 Rat Creek near Cassel
17 Burney Creek near Burney
18 Little Cow Creek near Ingot
19 Shasta Lake
20 Spring Creek near Keswick
21 Salt Creek near Bella Vista
22 Sacramento River at Keswick
23 Bear Creek near Millville
24 Clear Creek near Igo
25 North Fork Cottonwood Creek near Igo
26 South Fork Battle Creek near Mineral
27 Battle Creek near Cottonwood
28 Cottonwood Creek near Cottonwood
29 Dry Fork S. F. Cottonwood Creek near Cottonwood
30 South Fork Cottonwood Creek near Cottonwood
31 Sacramento River near Red Bluff
32 Antelope Creek near Red Bluff
33 Sacramento River at Red Bluff
34 Lights Creek near Tayloraville
35 Indian Creek near Tayloraville
36 Red Clover Creek near Genesee
36A Indian Creek near Boulder Creek Guard Station
37 Red Bank Creek near Red Bluff
38 North Fork Mill Creek near Los Molinos
39 Mill Creek near Mouth
40 Mill Creek near Los Molinos
41 Deer Creek near Vina
42 Spanish Creek near Quincy
43 Little Last Chance Creek near Chilcoot
44 Middle Fork Feather River near Portola
45 Smithneck Creek near Loyalton
46 Miller Creek near Sattley
47 Sacramento River at Vina Bridge
48 Thomes Creek at Paskenta
49 Sacramento River at Hamilton City
50 Big Chico Creek near Chico
51 Little Chico Creek near Chico
51A Little Chico Creek Diversion near Chico
52 Butte Creek near Chico
53 Butte Creek near Durham
54 Big Chico Creek at Chico
55 Lindo Channel near Chico
56 Stony Creek at St. John
57 Stony Creek near Hamilton City
58 Grindstone Creek near Elk Creek
59 Sacramento River at Ord Ferry
60 Feather River near Oroville
61 Cherokee Canal near Richvale
62 Sacramento River at Butte City
63 Feather River near Gridley
64 North Honcut Creek near Bangor
65 Moulton Weir Spill to Butte Basin
66 Sacramento River opposite Moulton Weir
67 Stone Corral Creek near Sites
68 Colusa Weir Spill to Butte Basin
69 Deer Creek near Nevada City
70 Yuba River at Englebright Dam
71 Colusa Basin Drain at Highway 20
72 Sacramento River at Colusa
73 Sacramento River at Butte Slough Outfall Gates
74 Butte Slough at Outfall Gates
75 Butte Slough at Mawson Bridge
76 Sutter Bypass at Long Bridge
77 Wadsworth Canal near Sutter
78 Feather River at Yuba City
79 Yuba River near Marysville
80 Sutter Bypass at State Pumping Plant 3
81 Sacramento River at Meridian
82 Middle Creek near Upper Lake
83 Clover Creek at Upper Lake
84 Clover Creek Bypass near Upper Lake
85 Scott Creek at Upper Lake
86 Scott Creek near Lakeport
87 Copsey Creek near Lower Lake
88 Bear Creek near Rumsey
89 Cache Creek above Rumsey
90 Colusa Basin Drain near College City
91 R. D. 70 Drainage to Sacramento River
92 R. D. 1660 Drainage to Sutter Bypass
93 Tisdale Weir Spill to Sutter Bypass
94 Tisdale Bypass at R. D. 1660 Pumping Plant
95 R. D. 1660 Drainage to Tisdale Bypass
96 Sutter Bypass at State Pumping Plant 2
97 Feather River below Shanghai Bend
98 Dry Creek near Wheatland
99 Wolf Creek near Wolf
100 Bear River near Colfax
101 Bear River near Wheatland
102 Sacramento River below Wilkins Slough
103 Sutter Bypass at State Pumping Plant 1
104 Feather River at Nicolaus
105 Coon Creek at Highway 99E
106 Auburn Ravine at Lincoln
107 Sacramento River above R. D. 108 Pumping Plant
108 R. D. 108 Drainage to Sacramento River
109 R. D. 787 Drainage to Sacramento River
110 R. D. 787 Drainage to Colusa Basin Drain
111 Colusa Basin Drain at Knights Landing
112 Sacramento River at Knights Landing
113 R. D. 1500 Drainage to Sacramento Slough
114 Natomas Cross Canal at Head
115 R. D. 1001 Drainage to Natomas Cross Canal
116 Linda Creek near Roseville
117 Sacramento River at Verona
118 Sacramento River at Fremont Weir, East End
118-119 Fremont Weir Spill to Yolo Bypass
119 Sacramento River at Fremont Weir, West End
120 Sacramento Slough at Sacramento River
121 Cache Creek at Yolo
122 Yolo Bypass near Woodland
123 Folsom Reservoir
124 American River at Fair Oaks
125 R. D. 1000 Drainage to Sacramento River (Pritchard Lake)
126 Sacramento River oppoaite Sacramento Weir
127 R. D. 1000 Drainage to Sacramento River (Second Bannon Slough)
128 Yolo Bypass above Sacramento Bypass
126-129 Sacramento Weir Spill to Yolo Bypass
129 Sacramento River at Sacramento Weir
130 Sacramento River at Sacramento
131 Arden Area Drainage to American River (Pumping Plant #1)
132 Arden Area Drainage to American River (Pumping Plant #2)
133 American River at Sacramento
134 Pleasants Creek near Winters
134A Pope Creek near Pope Valley
135 Putah Creek below Winters
136 Putah Creek near Winters
136A Lake Berryessa
137 Putah Creek above Davis
138 South Fork Putah Creek near Davis
139 Yolo Bypass near Lisbon
140 Sacramento River near Freeport
141 Dear Creek near Sloughhouse
142 Cosumnes River at Michigan Bar
143 Sacramento River at Clarksburg
144 Sacramento River at Snodgrass Slough
145 Sutter Creek near Sutter Creek
145A Dry Creek near Ione
146 Cosumnes River at McConnell
147 Yolo Bypass at Liberty Island
148 Miner Slough at Five Points
149 Snodgrass Slough at Twin Cities Road Bridge
150 Delta Cross Channel at Walnut Grove
151 Yolo Bypass at Lindsey Slough
152 Sacramento River at Walnut Grove
153 South Fork Mokelumne River at New Hope Bridge
154 Mokelumne River near Thornton
155 Sacramento River at Rio Vista
156 Sacramento River at Isleton
157 Sacramento River at Collinsville
158 Threemile Slough at Sacramento River
159 Threemile Slough at San Joaquin River
160 Georgiana Slough at Mokelumne River
161 San Joaquin River at San Andreas Landing
162 Mokelumne River at Woodbridge
163 Calaveraa River at Jenny Lind
164 Calaveraa River at Bellota
165 San Joaquin River at Venice Island
166 San Joaquin River at Antioch
167 Contra Costa Canal near Oakley
168 Old River at Holland Tract
169 Old River near Rock Slough
170 Rock Slough at Contra Costa Canal Intake
171 Middle River at Bacon Island
172 San Joaquin River at Rindge Pump
173 Stockton Ship Channel at Burns Cutoff
174 McLeod Lake at Stockton
175 Stockton Diverting Canal at Stockton
176 Calaveras River near Stockton
177 Mormon Slough at Bellota
178 Duck Creek Diversion near Farmington
179 Littlejohns Creek at Farmington
180 Duck Creek near Stockton
181 French Camp Slough near French Camp
182 South San Joaquin I. D. Main Drain at French Camp
183 San Joaquin River at Brandt Bridge
184 Old River at Mansion Houae
185 Middle River Borden Highway
186 Old River at Clifton Court Ferry
187 Delta Mendota Canal near Tracy
188 Grant Line Canal at Tracy Road Bridge
189 Old River near Tracy Road Bridge
190 Middle River at Mowry Bridge
191 Tom Paine Slough above Mouth
192 San Joaquin River at Mossdale Bridge
193 Stanislaus River at Orange Blossom Bridge
194 Stanislaus River at Riverbank
195 South San Joaquin I. D. Drain 11 near Manteca
196 Stanislaus River near Mouth
197 San Joaquin River near Vernalis
198 San Joaquin River at Maze Road Bridge
199 Stanislaus River at Koetitz Ranch
200 Stanislaus River at Ripon
201 Dry Creek near Modesto
202 Tuolumne River at Hickman Bridge
203 Tuolumne River at Roberts Ferry Bridge
204 Maxwell Creek at Coulterville
205 North Fork Merced River near Coulterville
206 Tuolumne River at Modesto
207 Tuolumne River at Tuolumne City
208 San Joaquin River at Hetch Hetchy Aqueduct Crossing
209 San Joaquin River at West Stanislaus Irrigation District Intake
210 Burkhardt Drain near Grayson
211 San Joaquin River at Grayson
212 San Joaquin River at Patterson Bridge
213 San Joaquin River at Crows Landing Bridge
214 Orestimba Creek near Crows Landing
215 San Joaquin River near Newman
216 San Joaquin River at Fremont Ford Bridge
217 Merced River at Cressey
218 Merced River below Snelling
219 Burns Creek below Burns Reservoir
220 Bear Creek near Cathay
221 Burns Creek at Hornitos
222 West Fork Chowchilla River near Mariposa
223 Big Creek Diversion near Fish Camp
224 Miami Creek near Oakhurst
225 Middle Fork Chowchilla River near Nipinnawasee
226 East Fork Chowchilla River near Ahwahnee
227 Striped Rock Creek near Raymond
228 Mariposa Creek near Cathay
229 Bear Creek below Bear Reservoir
230 Owens Creek below Owens Reservoir
231 Mariposa Creek below Mariposa Reservoir
232 San Joaquin River near Dos Palos
233 Millerton Lake
234 Panoche Drain near Dos Palos
235 San Joaquin River near Mendota
236 San Joaquin River at Whitehouse
237 South Fork Kings River below Empire Weir 2
238 Cross Creek below Lakeland Canal 2
239 Tulare Lake
240 Elk Bayou near Tulare
241 Tule River below Porterville
242 Friant-Kern Canal Delivery to Tule River
243 Friant-Kern Canal Delivery to Porter Slough
244 Porter Slough near Porterville
245 Porter Slough at Porterville
246 North Fork Tule River at Springville
247 Deer Creek near Terra Bella I. D.
248 Kern River near Bakersfield

LAHONTAN REGION

1 Bidwell Creek near Fort Bidwell
2 Cedar Creek at Cedarville
3 Eagle Creek at Eagleville
4 Pine Creek near Susanville
5 Eagle Lake near Susanville
6 Willow Creek near Litchfield
7 Gold Run Creek near Susanville
8 Long Valley Creek near Doyle
9 Blackwood Creek near Tahoe City
10 Trout Creek near Tahoe Valley
11 Upper Truckee River near Meyers

SAN FRANCISCO BAY REGION

1 Suisun Bay at Benicia Arsenal
2 Arroyo De Los Coches near Milpitas
3 Walnut Creek near Pleasant Hills

LEGEND

1 NORTH COASTAL AREA
2 SAN FRANCISCO BAY AREA
3 CENTRAL COASTAL AREA
4 SOUTH COASTAL AREA
5. CENTRAL VALLEY AREA
6 LAHONTON AREA
7 COLORADO DESERT AREA (NOT SHOWN ON THIS PLATE)

AREA OF MEASUREMENT OF DIVERSIONS

SURFACE WATER MEASUREMENT STATIONS

STREAM FLOW
WATER STAGE

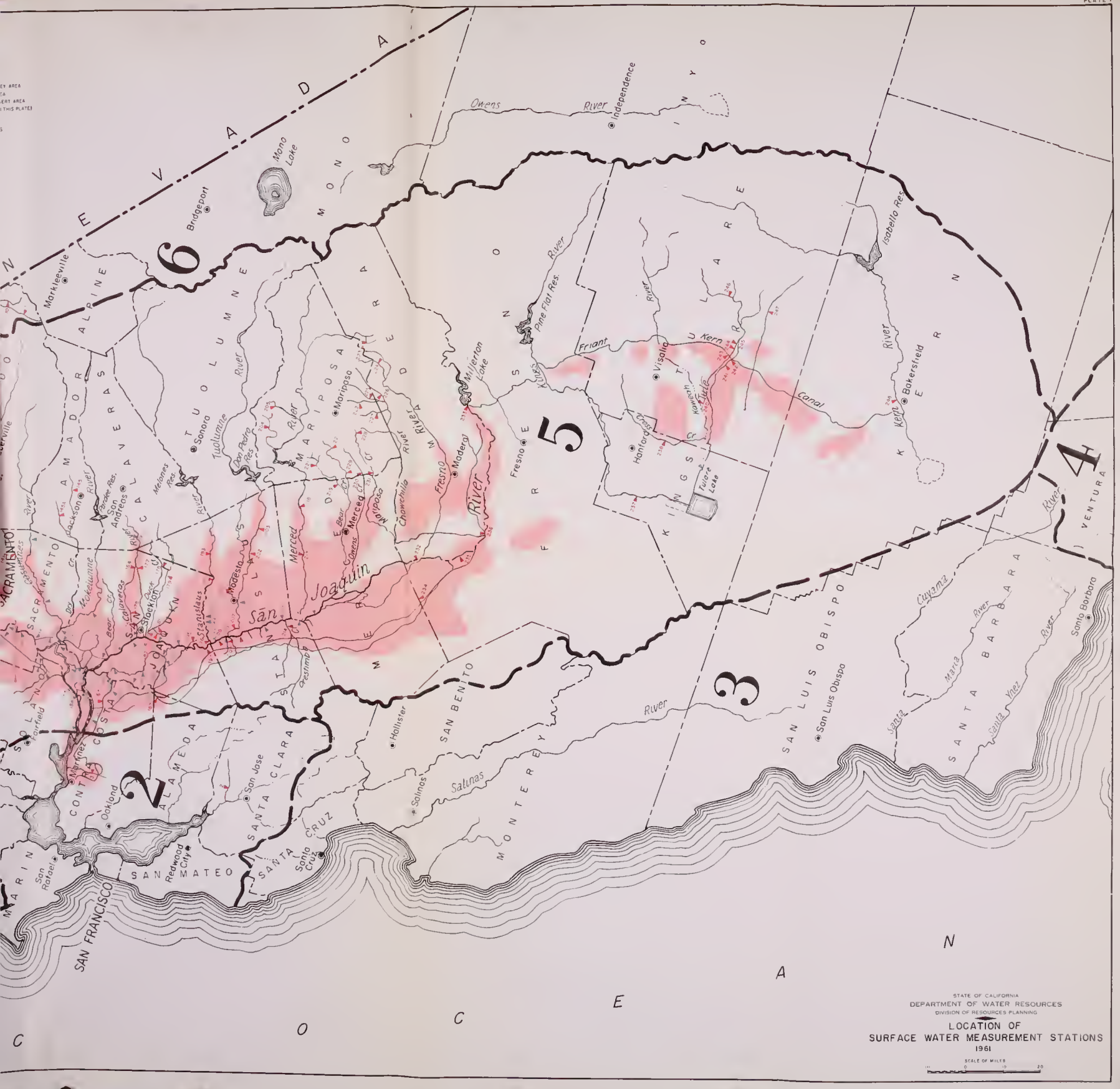
N

O R E G O N

C A L I F O R N I A

P A C I F I C

Goose Lake
Clear Lake Res.
Big Sage Res.
Alturas
Modoc
Lassen
Eagle Lake
Willow Cr.
Susanville
Honey Lake
Long Valley
Lake Tahoe
Nevada
Placer
El Dorado
Sacramento
Yolo
Solano
Napa
Sonoma
Marin
Mendocino
Lake
Colusa
Glenn
Butte
Sutter
Yuba
Nevada
Placer
Sacramento
Yolo
Solano
Napa
Sonoma
Marin
Humboldt
Trinity
Del Norte
Shasta
Tehama
Plumas
Sierra
Lassen
Modoc
Siskiyou
Fall River
Pit River
Burney Cr.
Rush Cr.
Ash Cr.
Indian Creek
Quincy
Middle Fork Feather River
N. Fork Feather River
Lake Almanor
Lights Cr.
Downieville
Yuba River
Deer Cr.
Nevada City
Bear River
Auburn
American River
Folsom Res.
Placerville
Sacramento River
Shasta Lake
Redding
Cow Cr.
Cottonwood Creek
Red Bluff
S. Fk. Cottonwood Cr.
Thomes Creek
Big Chico Cr.
Hamilton Cr.
Deer Cr.
Mill Cr.
Chico
Oroville
Feather River
Marysville
Yuba City
Bear River
Willows
Stony Creek
Colusa
Caluso
Basin
Drain
Woodland
Cache Cr.
Bear Cr.
Putah Cr.
Winters
Fairfield
Vacaville
Solano
Sacramento
Folsom
Clear Lake
Lakeport
Monticello Res.
Napa
Santa Rosa
San Rafael
Ukiah
Russian River
Eureka
Eel River
Mad River
Big Cr.
Browns Cr.
Weaverville
Trinity River
Klamath River
Scott River
Shasta River
Yreka
Crescent City
Little Shasta R.
Mokelumne



STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

LOCATION OF SURFACE WATER MEASUREMENT STATIONS 1961

SCALE OF MILES
0 10 20

PLATE 2

TIDE STATIONS

Station Number	
1	Sacramento River at Sacramento Weir
2	Sacramento River at Sacramento
3	Yolo Bypass near Lisbon
4	Sacramento River near Freeport
5	Sacramento River at Clarksburg
6	Sacramento River at Snodgrass Slough
7	Yolo Bypass at Liberty Island
8	Miner Slough at Five Points
9	Snodgrass Slough at Twin Cities Road Bridge
10	Mokelumne River near Thornton
11	Delta Cross Channel at Walnut Grove
12	Sacramento River at Walnut Grove
13	South Fork Mokelumne River at New Hope Bridge
14	Yolo Bypass at Lindsey Slough
15	Sacramento River at Isleton
16	Sacramento River at Rio Vista
17	Georgiana Slough at Mokelumne River
18	Threemile Slough at Sacramento River
19	San Joaquin River at San Andreas Landing
20	Threemile Slough at San Joaquin River
21	San Joaquin River at Venice Island
22	San Joaquin River at Antioch
23	Old River at Holland Tract
24	Middle River at Bacon Island
25	San Joaquin River at Rindge Pump
26	Old River near Rock Slough
27	Rock Slough at Contra Costa Canal Intake
28	Stockton Ship Channel at Burns Cutoff
29	McLead Lake at Stockton
30	Old River at Mansion House
31	Middle River at Borden Highway
32	San Joaquin River at Brandt Bridge
33	Middle River at Mowry Bridge
34	Old River at Clifton Court Ferry
35	Grant Line Canal at Tracy Road Bridge
36	Old River near Tracy Road Bridge
37	Tom Paine Slough above Mouth
38	San Joaquin River at Mossdale Bridge

SALINITY STATIONS

Station Number	
1	Innisfail Ferry
2	Isleton Bridge
3	Rio Vista Bridge
4	Threemile Slough Bridge
5	San Andreas Landing
6	Opposite Central Landing
7	Oulton Point
8	Threemile Slough
9	Emmaton
10	Collinsville
11	Spoonbill Creek
12	Port Chicago
13	Jersey Island
14	Pittsburg
15	Antioch
16	Antioch Bridge
17	Dutch Slough
18	East Contra Costa Irrigation District
19	Clifton Court Ferry
20	Mossdale Bridge
21	Vernalis
Off Map	Benicia
Off Map	Crockett
Off Map	Martinez
Off Map	Point Pinole
Off Map	West Suisun

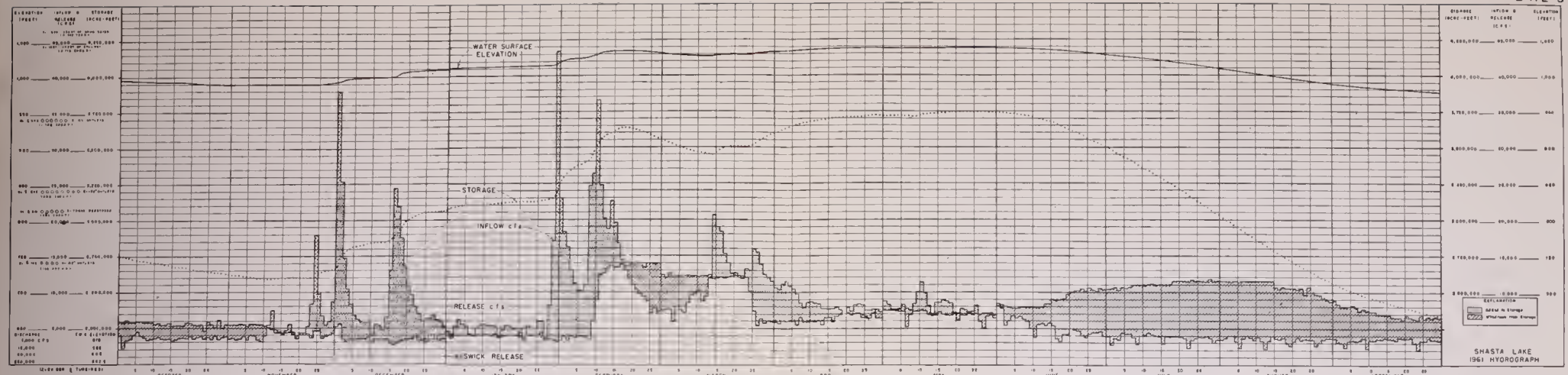
Note- For description of station locations see Table 4 for Tide Stations and Table 83 for Salinity Stations.

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DELTA BRANCH

SALINITY ENCROACHMENT AND TIDAL STATIONS SACRAMENTO - SAN JOAQUIN DELTA AND UPPER BAYS 1961

SCALE IN MILES

PLATE 3


WATER SURFACE ELEVATION
STORAGE
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RELEASE c f s
SWICK RELEASE
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NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
EXPLANATION
SHASTA LAKE
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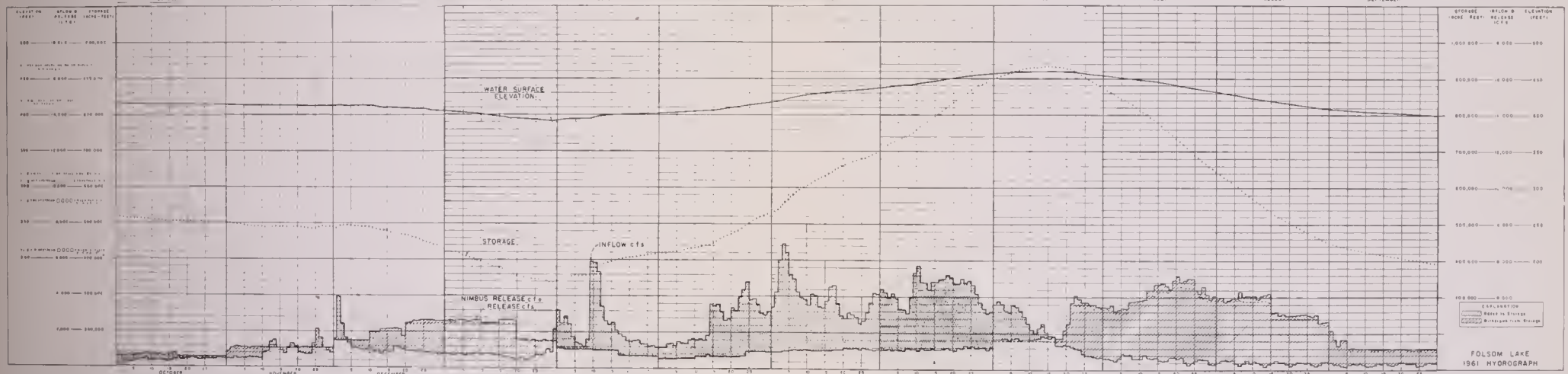
WATER SURFACE ELEVATION
STORAGE
INFLOW c f s
NIMBUS RELEASE c f s
RELEASE c f s
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DECEMBER
JANUARY
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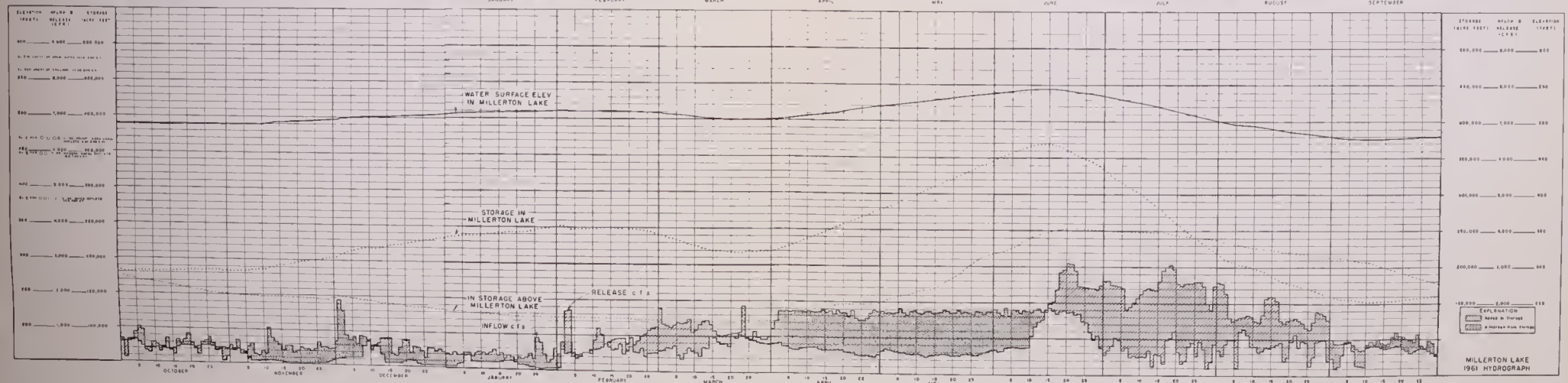
AUGUST
SEPTEMBER
EXPLANATION
FOLSOM LAKE
1961 HYDROGRAPH


WATER SURFACE ELEV IN MILLERTON LAKE
STORAGE IN MILLERTON LAKE
IN STORAGE ABOVE MILLERTON LAKE
INFLOW c f s
RELEASE c f s
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
EXPLANATION
MILLERTON LAKE
1961 HYDROGRAPH

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